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DESIGN AND PERFORMANCE OF A LARGE VOCABULARY DISCRETE WORD RECOGNITION SYSTEM VOLUME II

APPENDIXES

by

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PREFACE

The following report consists of two separate volumes for the reader's convenience. Volume I consists of the main body of this report while Volume II consists of a user manual and as such is considered an appendix to Volume I.

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APPENDIX A

COMPLETE FLOW DIAGRAM
WORD RECOGNITION SYSTEM

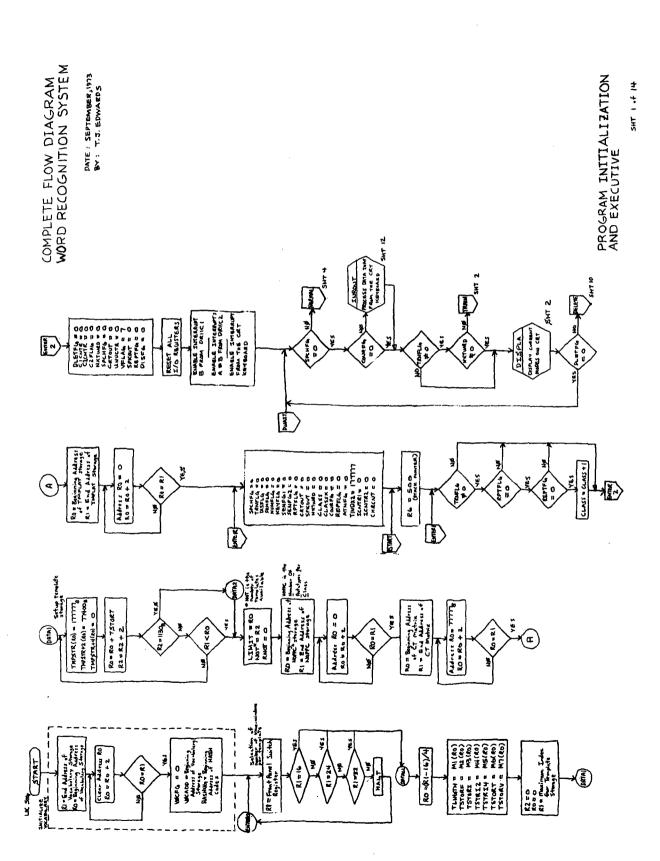
The following flowcharts present a logical diagram of the WRS software including input/output routines. The flowcharts are arranged basically in the same order as the applicable assembly language WRS program listing in Appendix F.

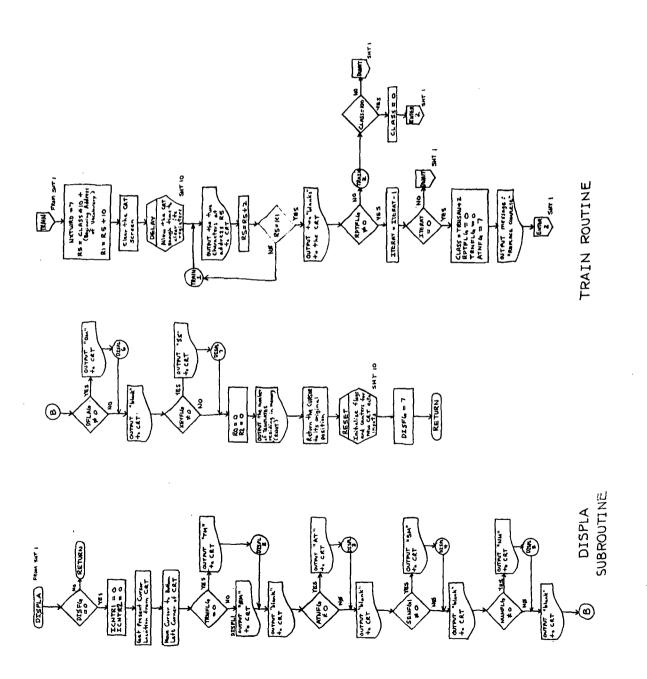
All labels in capital letters correspond to actual assembly language labels and all numbers are in base 10 unless designated as base 8 (octal) as in 177778. The flowchart symbols are as follows:

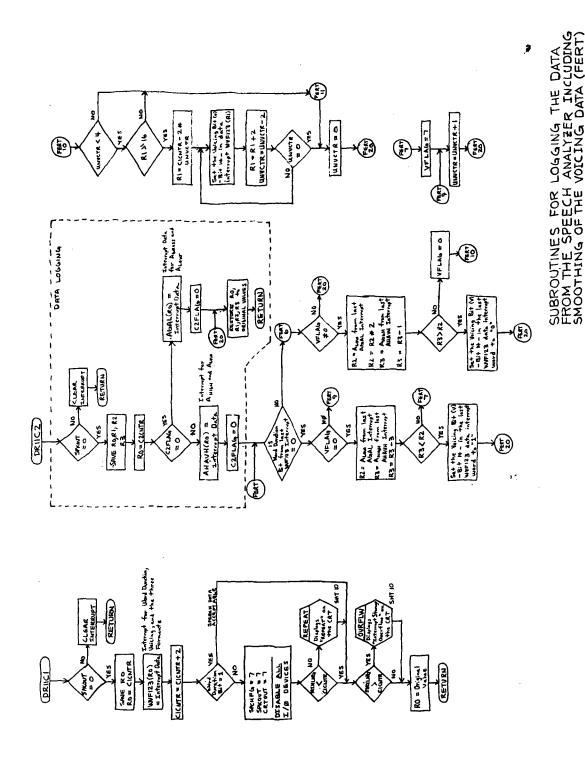
	Entry or exit point for a routine, program, or subroutine
	Operations executed within this block
\Diamond	Interrogation (decision)
	Output to a peripheral
	Subroutine
	Flowchart label utilized only on this page*
abla	Flowchart label utilized on another page as well*

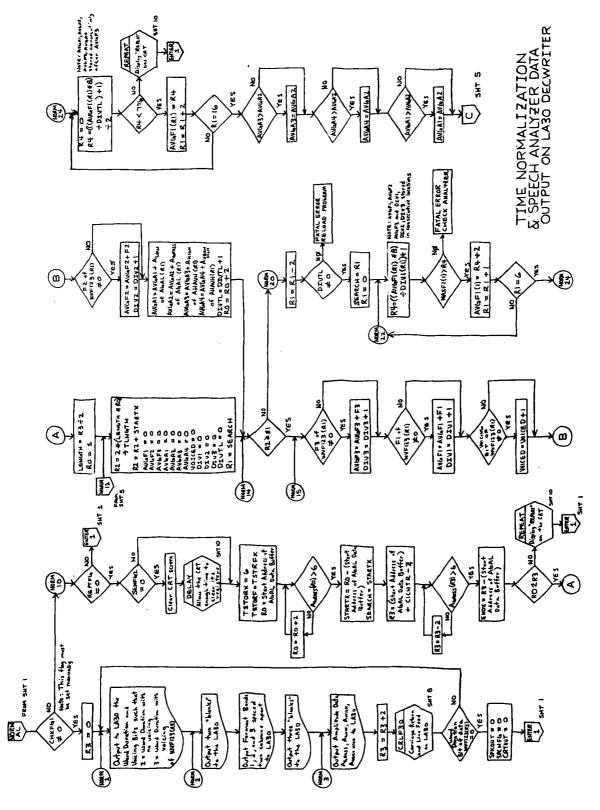
Figure 1 shows the WRS in operation.

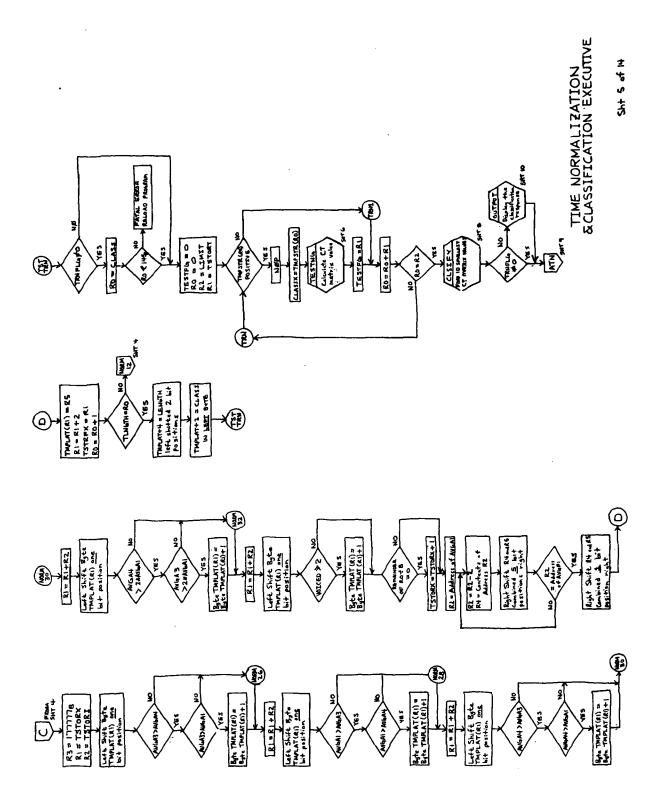
^{*}Single capital letters do not correspond to actual assembly language program labels but merely indicate flow.

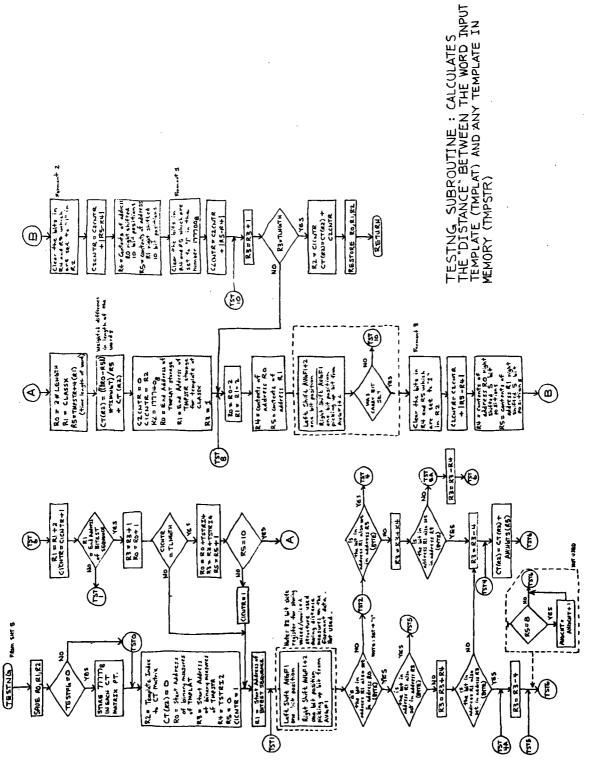


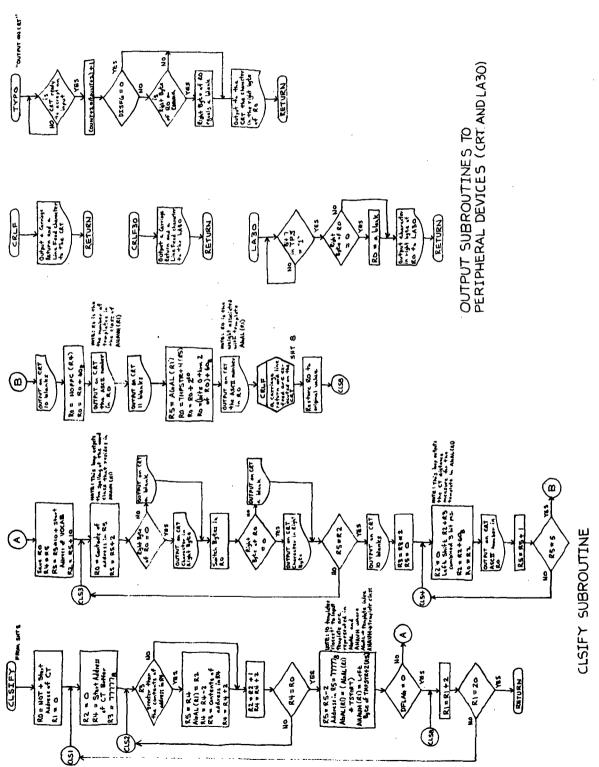


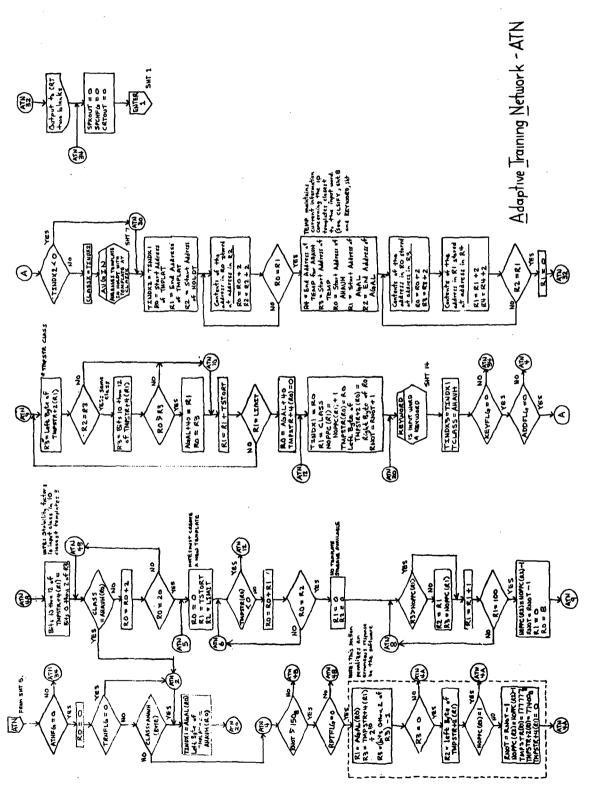


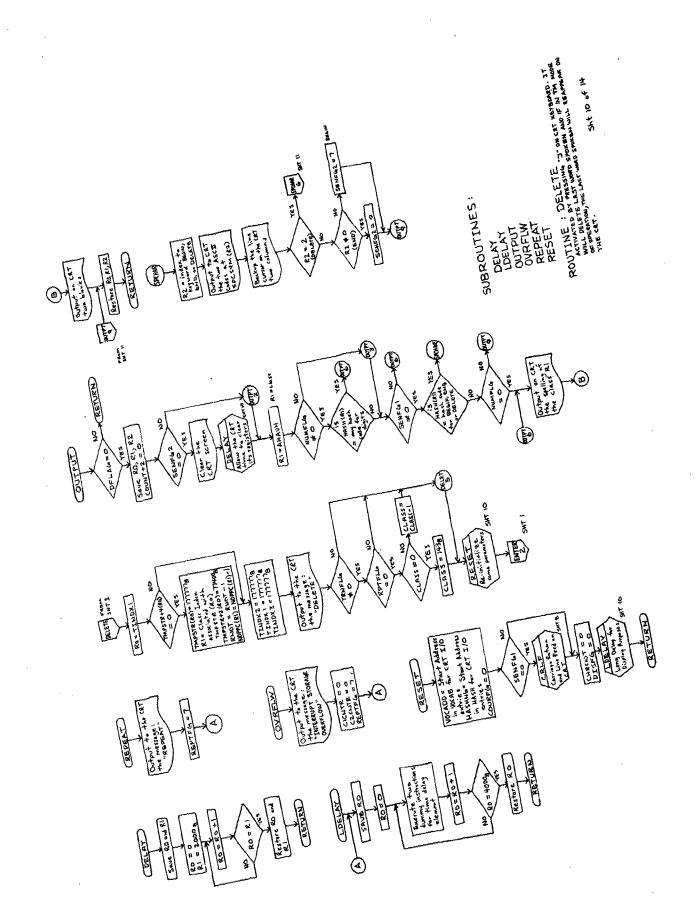


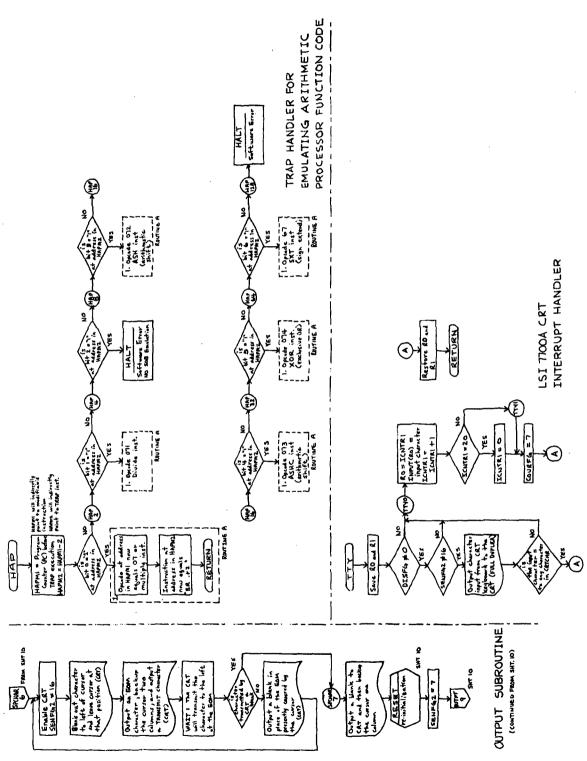


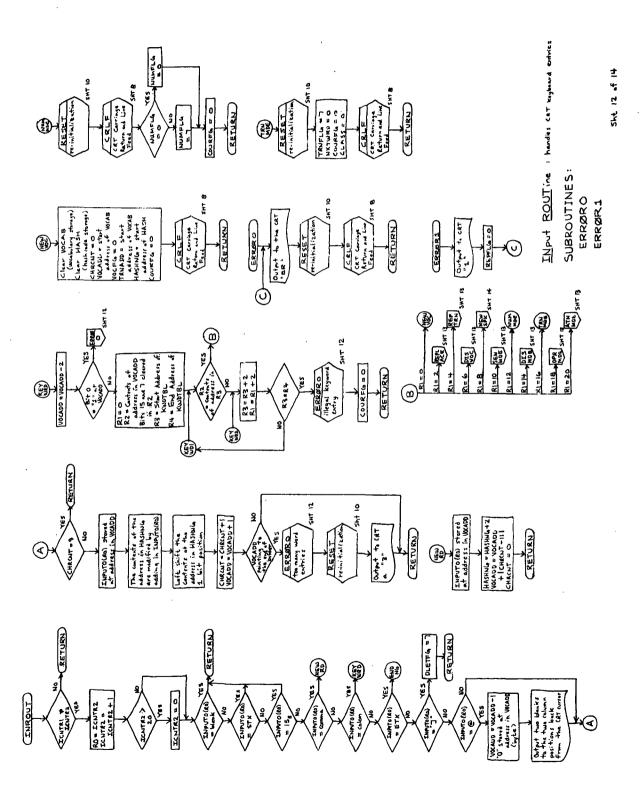


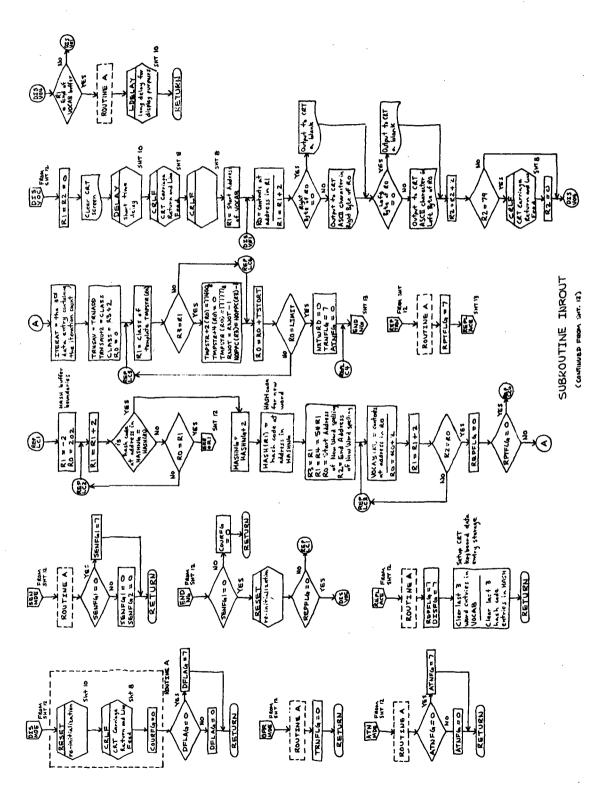












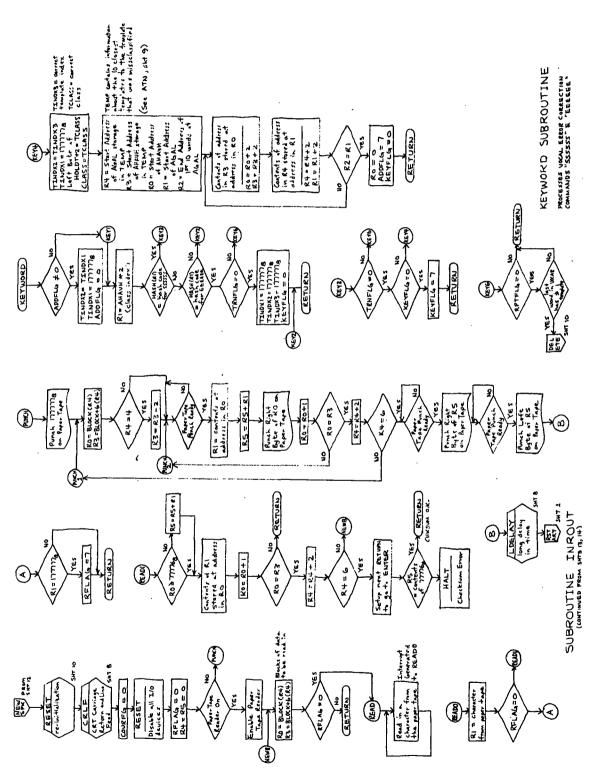
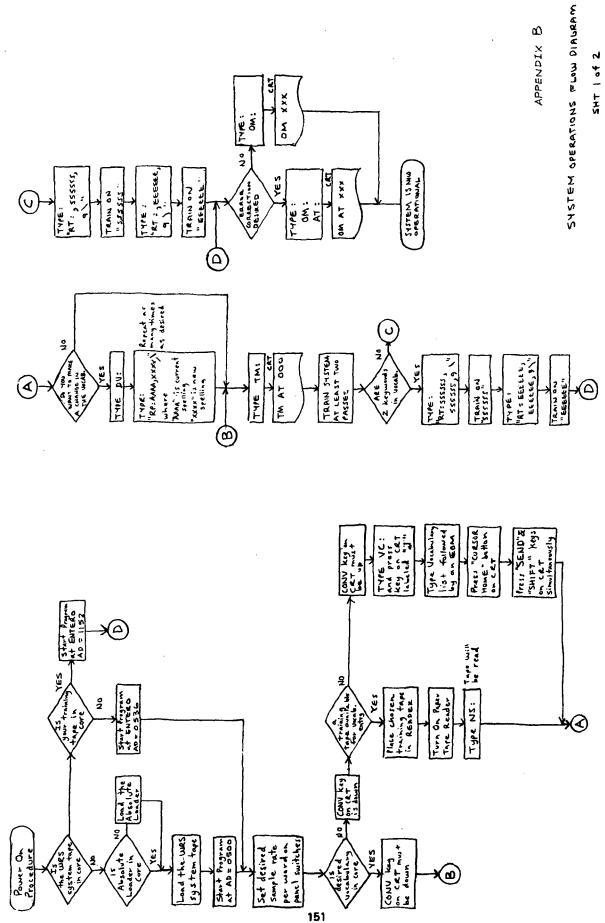


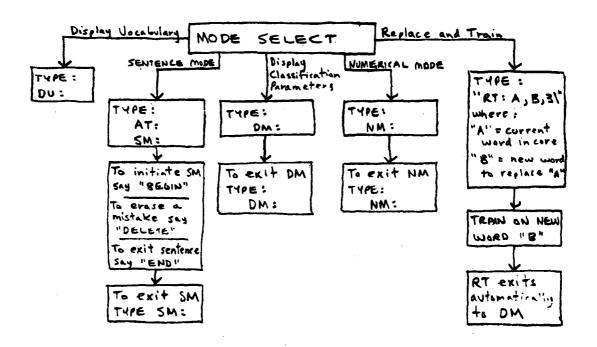


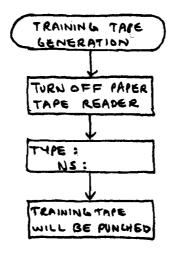
FIGURE 1. WORD RECOGNITION SYSTEM IN OPERATION

APPENDIX B WRS OPERATING INSTRUCTIONS AND OPERATIONAL FLOWCHART

The following flow chart and operating instructions are intended for those people who must work intimately with the WRS. The attached flowchart is intended to provide a general description of the user input/output necessary to utilize the system, while the following text provides a very complete step-by-step procedure for the user who is new to the WRS operating concepts. It is strongly suggested that the flow chart and operating instructions be well understood by any person attempting to train and operate the WRS, especially when utilizing the Adaptive Training Mode.







APPENDIX B

WORD RECOGNITION SYSTEM OPERATING INSTRUCTIONS

I. SYSTEM STARTING INSTRUCTIONS

- A. Starting the WRS via a training set paper tape entry:
 - 1. Turn on the power to the DEC' PDP 1140 computer.
 - 2. Turn on the power to the LSI' 7700A CRT terminal.
 - 3. Turn on the PDP 1140 paper tape READER.
 - 4. If the system program is currently residing in memory, go to step 12, otherwise continue with step 5.
 - 5. Load the perforated leader of the ABSOLUTE LOADER paper tape into the PDP 1140 paper tape READER.
 - 6. Via the PDP 1140 panel switches (0 through 17), load the address "773000." This is accomplished by setting octal "773000" on the switches and temporarily pushing down the switch labeled "LOAD ADDRESS." "773000" should then appear in the ADDRESS register located on the front panel.
 - 7. Place the PDP 1140 "HALT" switch down, press the "START" switch down and release it, place the "HALT" switch up, and then press the "CONT" switch down and release it.
 - 8. If the address register does not read 077500 after the tape has been read in, repeat steps 1 through 7.
 - 9. Load address "077500" via the panel switches.
 - 10. Place the WRS SYSTEM TAPE to be read in the PDP 1140 paper tape READER with blank tape leading.
 - 11. Perform step 7. The tape will be read in.
 - 12. Load address "000500" via the PDP 1140's panel switches.
 - 13. Perform step 7. The address register should read 566.

14. Load the desired system configuration via the panel switches as follows:

16 sample system - ''000020''

24 sample system - "000030"

32 sample system - ''000040''

- 15. Press the "CONT" switch down and release it. If the address register still reads 566, then repeat steps 14 and 15. Otherwise continue with step 16.
- 16. Make certain the "CONV" key on the CRT keyboard is down.
- 17. Place the desired TRAINING TAPE to be read in the PDP 1140 paper tape reader with blank tape leading.
- 18. Type "NS:" on the CRT keyboard and the TRAINING TAPE will be read. As the tape may not fit into the tape bucket after some reading, one may temporarily place the PDP 1140 "HALT switch down, rearrange the tape in the tape bucket, place the "HALT" switch up, and press the "CONT" switch down and then release it. The tape will continue to be read.
- 19. If the tape reads in without failure, the program will be running ("RUN" light on). If a halt is encountered ("RUN" light off), consult the computer listing at the address displayed in the front panel ADDRESS register.
- B. Starting the WRS without a training tape:
 - 1. Perform steps I.A.1 through I.A.16.
 - 2. Enter a vocabulary as described in Section II.
 - 3. If someone else's TRAINING TAPE was utilized for vocabulary input perform the following steps; otherwise, proceed to step 8.
 - 4. Press "HALT" switch down on the PDP 1140.
 - 5. Load the address corresponding to "ENTERO" in the system software listing in Appendix F, on the PDP 1140 panel switches.
 - 6. Perform step I.A.7.
 - 7. Perform steps I. A. 14 and I. A. 15.

- 8. Type "TM:" on the CRT keyboard (the CRT keyboard "CONV" key must be down).
- 9. The first word in the vocabulary should now appear on the CRT. In the bottom left corner should appear "TM AT 000."
- 10. Put on the microphone headset so that the microphone is opposite the upper lip and about two fingers away. Place the microphone ON-OFF switch to "ON."
- 11. Pronounce the displayed word. The CRT will temporarily clear and the next word in the vocabulary will appear.
- 12. Repeat step 11 for every word in the vocabulary. One should cycle through the vocabulary at least twice.
- 13. If one should like to repeat a word he has just spoken, press the "]" key on the CRT keyboard. The last word spoken will appear on the CRT. This backup mode is most often utilized when the user feels he has mispronounced a word or background noise may have distorted the speech entry.
- 14. To enable the user to utilize the Adaptive Training Network (ATN) or "AT" mode, he must train on the two keywords necessary for its operation. For the completion of of this task, consult Section III.
- 15. The user may now enter Operational Mode (OM) by typing "OM:" and "AT:" on the CRT keyboard. The mode displayed on the CRT should only be "ØM." The user can now test his training set by pronouncing the words in the vocabulary which the CRT should then display.
- 16. One should now enter the "AT" mode as described in Section III. Remember that each error made by the WRS must either be corrected or acknowledged for the WRS to function accurately.

II. VOCABULARY AND TRAINING SET INPUT/OUTPUT

- A. Entering a new vocabulary via the CRT keyboard:
 - 1. Make certain the "CONV" key is up.
 - 2. Press "CURSOR HOME."
 - 3. Type in "VC:"
 - 4. Press "__ " which will start you on the next line.

- 5. Type in each of the 100 words of the new vocabulary; each word being followed by a comma, and each word occupying no more than 9 characters. If more than 9 characters per word are typed, the word will be truncated to the first 9 characters.
- 6. After the last comma is typed, press "EOM."
- 7. Now press "CURSOR HOME."
- 8. Now press "SEND" while concurrently pressing "SHIFT."
 The cursor will trace through all of the words on the
 screen and return with a display of the vocabulary just
 entered consisting of 8 words per line on the CRT.
- 9. The vocabulary is now started.
- B. Entering a new vocabulary via the Paper Tape Reader/Punch (DEC):
 - Make certain the CRT keyboard has the "CONV" key down.
 - 2. Make certain the Reader on the PDP 1140 is "ON."
 - 3. Take any person's training tape containing the desired vocabulary and load it into the paper tape reader. Make sure that the initial blank leader (only sprocket holes) is over the reading sensors.
 - 5. Type "NS:" on the CRT keyboard. The tape will then be read. As the tape will NOT automatically fit into the tape bucket after some reading, one may temporarily place the PDP 1140 "HALT" switch down, rearrange the tape in the bucket, place the "HALT" switch up, and press the "CONT" switch down and then release it. The tape will continue to be read.
 - 6. If the tape reads in without failure, the program will start running. If a halt is encountered however, consult the program listing. A checksum error is the probable cause.
 - 7. The tape having been read in via paper tape, now type in "DV:" on the CRT keyboard and the vocabulary on the tape will be displayed.
 - 8. To set up the software for your training set, see system starting instructions.

- C. Modifying the spelling of a word via the CRT keyboard:
 - 1. Make certain the "CONV" key is down.
 - 2. Type in "RP:." The cursor will restart two lines down.
 - 3. Type in "AAAA, XXXX," where "AAAA" is the current spelling and "XXXX" is the desired new spelling.
 - 4. Press "EOM" and release. The screen will display the entire vocabulary and the program is ready for a voice input or another keyboard entry.
- D. Replacing a word in the vocabulary with a new word and training on that new word up to 9 times:
 - 1. Make certain the "CONV" key is down.
 - 2. Type in "RT:." The cursor will restart four lines down.
 - 3. Type in "AAAA, XXXX, Z" where "AAAA" is the current word's spelling, "XXXX" is the new word's spelling, and "Z" is a number from "1" to "9" which indicates the number of training iterations for the new word.
 - 4. Press "EOM." The system software will now eliminate all templates for the word "AAAA" and display "Z" times the new word "XXXX." Each time "XXXX" is displayed, the user says the word until "REPLACE COMPLETE" appears on the CRT. At this time, say "XXXX" once more to make certain the recognition software does recognize the new word. If the word is classified correctly, the user may continue use of the system. If the word is repeatedly misclassified, then either the above procedure should be performed on "XXXX" or on the word it is misclassified as being.
- E. Entering the keywords "EEEEEE" and "SSSSSS" used in the ATN:
 - 1. Type "RT:X, SSSSSS, 9" on the CRT keyboard where X represents a blank if "SSSSSS" is not in the vocabulary and "SSSSSS" if it is in the vocabulary.
 - 2. Press "EOM" on the same keyboard. "SSSSSS" should now appear on the CRT.
 - 3. Pronounce "SSSSSS" as in "hissss" each time it reappears on the CRT until "REPLACE COMPLETE" appears on the CRT.

- 4. Pronounce "SSSSSS" once more.
- 5. If "SSSSS" does not appear on the CRT (i.e., incorrectly classified), repeat steps 1 through 4 again.
- 6. Perform steps 1 through 5 for "EEEEEE" where "EEEEEE" is any word not contained in the vocabulary itself which is easily separable from the words in the vocabulary. "Eliminate, Erase, or Error" are acceptable for entries if they are easily classified by the user.
- 7. The user may now continue in the normal mode of operation. Notice that the system is not now in the "AT" mode and if desired, must be entered as described in Section III.

F. Output of vocabulary and training set:

- 1. Turn off the PDP 1140 Paper Tape Reader.
- 2. Type "NS:" on the CRT keyboard.
- 3. The vocabulary and training set presently in the system will be punched on tape. If you should run out of tape, load in a new box of tape, and start the program at RSTART.

III. ADAPTIVE TRAINING NETWORK (ATN)

NOTE: The ATN allows production or modification of word templates. During Training Mode, one must also be in Adaptive Training (AT) in order to create templates - only in Replace and Train (RT) is this taken care of automatically. If one is in Operational Mode (OM) then the system has no way of knowing whether it gave the correct response to a user's speech input, therefore the user must verbally correct an error or acknowledge it whenever he is in the Operational Mode and in Adaptive Training concurrently.

A. ATN entry or exit:

- 1. If one is not in ATN, then "AT" will not appear at the lower left corner of the screen. To enter ATN mode, type "AT:" via the CRT keyboard.
- 2. If one wishes to exit the ATN mode, one types "AT:" via the CRT keyboard and the "AT" at the lower left corner will disappear.

- B. Verbal correction of misclassification when in OM and AT concurrently:
 - NOTE: You may only correct the last word spoken. If you should make an error and accidentally skip over it, the template corresponding to the incorrect response will be erroneously modified. The next word following the error must be one of the two control words "SSSSSS" or "EEEEEE."
 - 1. Correction of the misclassification:
 - a. Pronounce the sound "SSSSSS" as in "hisss."
 - b. After "SSSSS" appears on the CRT and "SS" in bottom left corner, repeat the word that was misclassified until that word appears on the CRT.
 - c. Pronounce "SSSSSS" again. When "SSSSSS" appears on the CRT, the misclassification has been corrected and the "SS" in the bottom left corner of the CRT will disappear.
 - d. If one should never be able to get the word that was misclassified, then say the word that corresponds to "EEEEEE." This will acknowledge the error but will not correct for it. It is suggested that the Replace and Train mode be utilized on either the misclassified word or the word that the system erroneously gave in response.
 - e. The user may now continue in the normal manner of operation.
 - Acknowledgement of the misclassification without correction;
 - a. Pronounce the word corresponding to "EEEEEE."
 - b. When "EEEEEE" appears on the CRT, the user may continue in the normal manner of operation.
- C. ATN keywords entry:

See Section II. E.

IV. DISPLAY MODES OF OPERATION VIA THE CRT KEYBOARD

A. Distance mode (DM):

NOTE: The distance mode allows the user to visually observe the "n" words* in the vocabulary which most closely resemble the input word giving three statistics as well in this order: 1) calculated distance from the input word to the displayed word, the number of templates representing the displayed word, and the weight associated with the template of the displayed word.

- 1. To enter the display mode, type in "DM:."
- 2. To exit the display mode, type in "DM:."
- 3. If "DM" appears in the lower left corner of the CRT, one is in the display mode, otherwise it is not active.

B. Sentence Mode (SM):

NOTE: The sentence mode enables the user to create sentences on the CRT with the aid of three keywords: BEGIN, DELETE, and END. BEGIN initiates a sentence and will appear as a "(." END terminates a sentence and is represented by a ")." DELETE will erase from the CRT the last word spoken.

- 1. To enter the sentence mode, type in "SM:."
- 2. To exit the sentence mode, type in "SM:."
- 3. If "SM" appears in the lower left corner of the CRT, one is in the sentence mode, otherwise it is not active.

C. Numerical Mode (NM):

NOTE: The numerical mode enables the user to display only the numerals 0 through 9 and special characters such as +, -, /, *, ., (,), ?, >. No other words will be displayed. The words must, of course, appear as the numerals and symbols.

- 1. To enter the numerical mode, type in "NM:."
- 2. To exit the numerical mode, type in "NM:."
- 3. If "NM" appears in the lower left corner of the CRT, one is in the numerical mode, otherwise it is not active.

^{*}See Section 6. C of Volume I.

D. Display Vocabulary (DV):

To display the 102 word vocabulary (including the two keywords), type "DV:."

V. SYSTEM MESSAGES TO THE USER VIA THE CRT

A. Error messages from keyboard action:

NOTE: All error messages displayed on the CRT as "ER" are non-fatal.

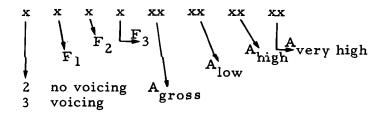
- 1. "ER" repeat the keyboard operation again.
- 2. "IER" word not in the vocabulary. Repeat the "RP" or "RT" operation again.
- 3. "3ER" the user has attempted to store too many words in the vocabulary or attempted to type in too many arguments for one of the various modes.
- B. Error messages from speech input action:

NOTE: These errors are non-fatal.

- 1. "Interrupt Storage Overflow" this occurs when the speech input to the WRS exceeds 1.6 seconds. This word input will not be accepted and the system will set up for the next word input.
- 2. "REPEAT" This is a reject message flashed on the CRT whenever a spurious injection of noise occurs or if a discrete word's total time length is less than 480 milliseconds. If noise caused "REPEAT" to occur, ignore the message. However, if pronouncing a word caused "REPEAT" to occur, then repeat the word again.

VI. OUTPUT OF THE ANALYZER DATA INPUT VIA THE LA30 DECWRITER

Set the core location labeled CHKFG1 in the program listing in Appendix F to a non-zero value. Each word uttered into the microphone will then be displayed on the LA30 Decwriter as 8 millisecond time samples per line as follows:



APPENDIX C
COMPUTER MEMORY MAP FOR WRS TEMPLATES

The memory map for WRS templates (Figure 2) provides the user with a means for accessing speech template data either for expansion of the system or for purposes of displaying the template data. Note that for the first template in memory, its "TEMPLATE INDEX" is located at "TMPSTR" in the WRS software program listing in Appendix F.

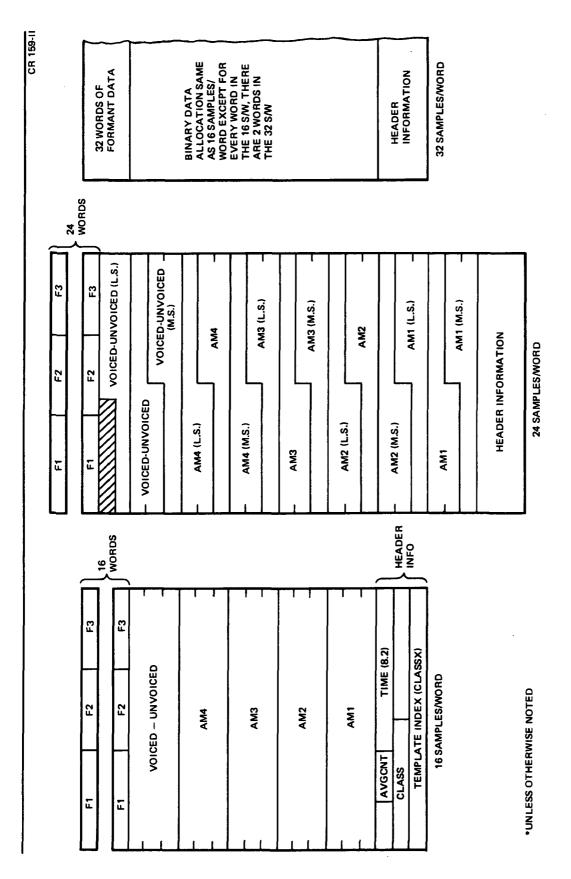


FIGURE 2. COMPUTER MEMORY MAP FOR WRS TEMPLATES (1 16-BIT-WORD/LINE*)

APPENDIX D SPEECH ANALYZER CARD ARRANGEMENT

This appendix provides the user with a physical mapping of the cards within the speech analyzer chassis and briefly outlines the function performed by each circuit card. A front view of the chassis is shown in Figure 3.

SPEECH ANALYZER CARD ARRANGEMENT

30ARI

- Pre-Amp, Equalizer Scaling Amp, Word Duration Scaling Amp, Equalizer, 6757LP (F22A), Word Duration
- ALC-1 (S&H, A/D, Shift Req., Shift Clock, Sample Control, Start Conv.)
- ALC-2 (X2 Amp, Square, LP filter, Bias, Square Root, Divide, D/A Scaling Amps (input and output), 6757LP (F22B), Drivers
- 4 Spare
- Filters-F₁, F₂, F₃, F₄
- Filters- F_5 , F_6 , F_7 , F_8
- Filters-F9, \mathbb{F}_{10} , \mathbb{F}_{11} , \mathbb{F}_{12}
- Filters- F_{13} , F_{14} , F_{15} , F_{16}
- Filters-F₁₇, F₁₈, F₁₉, F₂₀
- 10 Filters-F₂₁
- 11 HP Filter and AL $> \theta$
- Rectifiers/Low Pass $R_1, R_2, R_3, R_4, R_5, R_6, R_7, R_8, R_9, R_{10}, R_{11}, R_{12}$ 12
- Rectifiers/Low Pass R13, R14, R15, R16, R17, R18, R19, R20, R21, R22B, RHP22 13
- 14 Spare
- 15 Diff. Amps-D₂, D₃, D₄, D₅, D₆, D₇, D₈, D₉, D₁₀, D₁₁, D₁₂, D₁₃

BOARD

 $\text{Diff. Amps-D}_{14}, \textbf{D}_{15}, \textbf{D}_{16}, \textbf{D}_{17}, \textbf{D}_{18}, \textbf{D}_{19}, \textbf{D}_{20}, \textbf{D}_{21}, \textbf{D}_{10}-\textbf{F1}, \ \textbf{D}_{10}-\textbf{F2}, \ \textbf{D}_{16}-\textbf{F2}, \ \textbf{D}_{14}-\textbf{F3}$ 16

17 Diff. Amps-D(20-18)

18 Spare

19 Spare

20 Spare

21 Pitch Range Switching

22 Formant #1, Formant Frequency and Amplitude Network

23 Formant #2, Formant Frequency and Amplitude Network

24 Formant #3, Formant Frequency and Amplitude Network

25 Fill Logic and Request B-1

LED Drivers WD, V/UV, F1, F2, F3 and AG

97

27 Timing and Control

28 Amplitude Digitizer and Voice/Unvoiced Circuitry

29 LED Drivers AL, AH, AVH

Analyzer to 1140 Interface (IN-2)

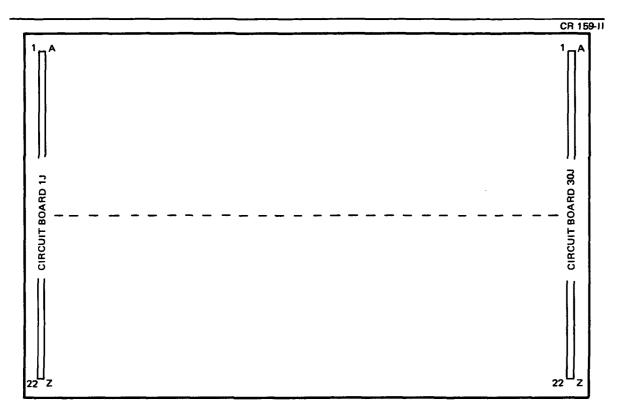


FIGURE 3. SPEECH ANALYZER CHASSIS — FRONT VIEW

APPENDIX E WRS MINICOMPUTER INPUT/OUTPUT INTERFACE BOARDS

The WRS Minicomputer (DEC PDP 11/40) contains 3 DR11-C 16-bit parallel input-output boards, each containing 2 available interrupts for a total of 96 data bits of input and output. Currently, only interrupt A on DR11-C-1 and both interrupts A and B on DR11-C-2 are being utilized, allowing for a total of 48 bits of input by the user when preceded by digital multiplexing. No output lines are used and therefore 48 data bits of output are available to the user as well. The following pages describe the pin-listings for each DR11-C interface board.

DR11-C-1-IN

C1	Berg	1140 Term	Analyzer Term	Analyzer Pin
1	A	_		
2	C	DATA TRANS-1	DATA TRANS-1	25J-B
3	E	IN02-1	F3-4	25J-15
4	H	IN02-1	F3-4	
5	K	CSRO		
6	M	IN 15-1	WD	25J-5
7	P	IN 13 - 1	GND	
8	s	REQUEST B-1	REQUEST B-1	25J-D
9	U	IN12-1	GND	
10	w	IN10-1	F1-4	25J-7
11	Y	IN09-1	F1-2	25J-8
12	AA	GND		
13	СС	IN07-1	F2-8	25J-10
14	EE	IN06-1	F2-4	25J-11
15	нн	IN05-1	F2-2	25J-12
16	KK	IN04-1	F2-1	25J-13
17	MM	GND		·
18	PP	GND		
19	SS	GND		
20	υυ	GND		,
21		,		
22				
23				
24				
25				
26	В	_ [
27	D	_		
28	F	_		
29	J	GND		

DR11-C-1-IN (Continued)

Cl	Berg	1140 Term	Analyzer Term	Analyzer Pin
30	L	GND		
31	N	IN14-1	v/uv	25J-4
32	R	GND		
33	T	GND		
34	v	IN11-1	F1-8	25J-6
35	X	GND		
36	Z	IN08-1	F1-1	25J - 9
37	ВВ	IN03-1	F3-8	25J-14
3,8	DD	GND		
39	FF	_		
40	JJ	GND		
41	LL	IN01-1	F3-2	25J-16
42	NN	INITH		
43	RR	INITH		
44	TT	IN00-1	F3-1	25J-17
45	vv	_		
46	:	REQUEST A-1	(Jumper C4-41 to C	1-46)
47				
48				
49				
50		:		
		į		
Ì				
				·
			:	

DR11-C-2-IN

Cl	Berg	1140 Term	Analyzer Term	Analyzer Pin
1	A			
2	С	DATA TRANS-2	DATA TRANS-2	30J-15
3	E	IN02-2	IN02-2	30J-11
4	Н	IN02-2		30J-11
5	K	CSRO		
6	M	IN15-2	_	GND
7	R	IN13-2	IN13-2	30J-2
8	S	REQUEST B-2	REQUEST B-2	30J-17
9	Ū	IN12-2	IN12-2	30J-3
10	w	IN10-2	IN12-2	30J-5
11	X	IN09-2	IN09-2	30J-6
12	AA	GND		
13	CC	IN07-2	_	GND
14	EE	IN06-2	-	GND
15	HH	IN05-2	IN05-2	30J-8
16	KK	IN04-2	IN04-2	30J-9
17	MM	GND		•
18	PP	GND		
19	SS	GND		
20	UU	GND		
21				
22				
23				
24				
25				
26	В	_		
27	D	_		
28	F	_		
29	J	GND		

DR11-C-2-IN (Continued)

C1	Berg	ll40 Term	Analyzer Term	Analyzer Pin
30	L	GND		
31	N	IN14-2	_	GND
32	R	GND		
33	T	GND		
34	V	IN11-2	IN11-2	30J-4
35	X	GND		
36	Z	IN08-2	IN08-2	30J-7
37	ВВ	IN03-2	IN03-2	30J-10
38	DD	GND		
39	FF	·		
40	JJ	GND		,
41	LL	IN01-2	IN01-2	30J-12
42	NN	INITH		
43	RR	INITH		
44	TT	IN00-2	IN00-2	30J-13
45	vv	_		
46		REQUEST A-2	REQUEST A-2	30J-16
47				(From C5-41
48				to C2-46)
49				
50				

DR11-C-3-IN

1 2 3 4	A C È	_		
2 3 4	С			
3 4	Ė	DATA TRANS		
4		IN02-3		
	N	IN02-3		
5	K	CSRO		
6	M	IN15-3	·	
7	R	IN13-3		
8	S	REQUEST B		
9	U	IN12-3		
10	w	IN10-3		
11	x	IN09-3		
12	AA	GND		
13	CC	IN07-3 .		
14	EE	IN06-3		
15	HH	IN05-3		
16	KK	IN04-3		
17	MM	GND		
18	PP	GND		
19	SS	GND		
20	UU	GND		
21				
22				
23				
24				
25				
26	· B	_		
27	D	-		
28	F	-		•
29	J	GND		

DR11-C-3-IN (Continued)

C1	Berg	1140 Term	Analyzer Term	Analyzer Pin
30	L	GND		
31	N	IN14-3	·	
32	R	GND		
33	Т	GND		
34	v	IN11-3		
35	x	GND		
36	Z	IN08-3		
37	ВВ	IN03-3		
38	DD	GND		
39	FF	_		
40	JJ	GND		
41	LL	IN01-3		
42	NN	INITH		
43	RR	INITH		
44	TT	IN00-3		
45	vv	_		
46				
47				
48				
49				
50				
				·
	<u> </u>			

DR11-C-1-OUT

C1	Berg	1140 Term	Analyzer Term	Analyzer Pin
1	A	_		
2	С	OUT00-1		
3	E	_		
4	Н	_		
5	K	OUT01-1		
6	M	GND		
7	R	INITH		
8	S	GND		
9	Ū	OUT03-1		
10	w	OUT08-1		
11	X	GND		
12	AA	OUT11-1		
13	CC	GND		
14	EE	GND		
15	HH	OUT14-1		
16	KK	GND		
17	MM	GND		
18	PP	GND		
19	SS	GND		
20	υυ	GND		
21		:		
22				
23	٠			
24		<u> </u>		
25				
26	В	_		
27	D	-		
28	F	-		
29	J	GND		

DR11-C-1-OUT (Continued)

C1	Berg	1140 Term	Analyzer Term	Analyzer Pin
30	L	OUT04-1		
31	N	OUT05-1		
32	R	OUT06-1		
33	Т	OUT07-1		,
34	V	GND		
35	X	OUT09-1		
36	Z	OUT10-1		
37	вв	OUT12-1		
38	DD	CSR1		
39	FF	OUT13-1		
40	JJ	OUT15-1		
41	LL	REQUEST A		
42	NN	OUT02-1		,
43	RR	OUT02-1		
44	$ extbf{T} extbf{T}$	OPEN		
45	VV	NEW DATA READY		
46				
47				
48				
49				
50				
]				
		;	,	

DR11-C-2-OUT

	Berg	1140 Term	Analyzer Term	Analyzer Pin
		 	,	, , , , , , , , , , , , , , , , , , ,
1	A	_		
2	С	OU_T00-2		
3	E	_		
4	Н	_		
5	K	OUT01-2		
6	М	GND	•	
7	R	INITH		
8	S	GND		
9	U	OUT03-2		
10	w	OUT08-2		
11	х	GND		
12	AA	OUT11-2		
13	CC	GND		
14	EE	GND		
15	нн	OUT14-2		
16	KK	GND		
17	MM	GND		
18	PP	GND		
19	SS	GND		
20	עט	GND		
21				
22				
23				
24				
25				
26	В	_		
27	D	_		
28	F	_	:	
29	J	GND		

DR11-C-2-OUT (Continued)

C1	Berg	1140 Term	Analyzer Term	Analyzer Pin
30	L	OUT04-2		
31	N	OUT05-2		
32	R	OUT06-2		
33	т	OUT07-2		
34	v	GND		
35	х	OUT09-2		
36	Z	OUT10-2		
37	вв	OUT12-2		
38	DD	CSRI		·
39 -	FF	OUT13-2		
40	JJ	OUT15-2		
41	LL	REQUEST A		<u>.</u>
42	NN	OUT02-2		
43	RR	OUT02-2		
44	TT	OPEN		
45	vv	NEW DATA READY		
46		Ì		
47				
48				
49				
50		1		
				·
			•	
				l
,				·

DR11-C-3-OUT

Cl	Berg	1140 Term	Analyzer Term	Analyzer Pin
1	A	_		
2	С	OUT00		·
3	E	_		
4	H	_		
5	K	OUT01-3		
6	M	GND		
7	R	INITH		
8	S	GND	-	
9	U	OUT03-3		
10	w	OUT08-3		
11	X	GND		
12	AA	OUT11-3		
13	CC	GND		
14	EE	GND		
15	HH	OUT14-3		
16	KK	GND		
17	MM	GND		,
18	PP	GND		,
19	SS	GND		c.
20	UU	GND		
21				
22				
23				
24				
25				
26	В	-		
27	D	_		
28	F	_		
29	J	GND		
				<u> </u>

DR11-C-3-OUT (Continued)

Cl	Berg	1140 Term	Analyzer Term	Analyzer Pin
30	L	OUT04-3	,	
31	N	OUT05-3		
32	R	OUT06-3		
33	${f T}$	OUT07-3		
34	v	GND		
35	X	OUT09-3		
36	Z	OUT10-3	•	
37	вв	OUT12-3		
38	DD	CSR1		
39	FF	OUT13-3		
40	JJ	OUT15-3	•	
41	LL	REQUEST A		
42	NN	OUT02-3		
43	RR	OUT02-3		
44	TT	OPEN		
45	VV	NEW DATA READY		
46				
47				
48				
49				
50				
				·
				,
		·		
			<u> </u>	<u> </u>

APPENDIX F
WRS ASSEMBLY LANGUAGE PROGRAM LISTING

The next 69 pages contain the complete assembly language listing of the WRS software. The first two pages contain the symbol table. For a flowchart description of the software, see Appendix A.

ADDFL G	011640	AGAL	912502	AHAVH	013322	AMMGTS	015114
RSH <u>=</u>	100410	<u>.8540 =</u>	104420	ATN	007150	_AINEG	
ATNMDE	020542	ATN1	007172	ATN10	007550	ATM12	007572
ain2	007202	ATNES	997626	ATNEO	007706	_ATN32_	007776
ATN34	ពុរ្ធគួរ្	aTN4	007230	ATN4A	007346	ATN4B	967366
ATN5	007410	ATN6	007422	FITNS	007442	ATN9	997594
AVG81	014166	AVGA2	014170	AVGA3	014172	AVGA4	014174
AVGF1	014160	AVGF2	914162	AVGF3	01.41.54		005512
8760	005572	AVG1	005662	RVG2	005736	AVG20	006320
AVGS	995752	AVG4	905760	AV66	995764	BITEST	
BLOCK	024130	CHKFG1	011660	CHRONT	023500	CLASS	011620
CLASSX	011622	CLSIFY	006534	CL51	006546		996569
CLS3	006674	01.54,	006762	CLSS	007134	COUNT	024146
COURSG	024034	CRLF	919126			CRICHR	
CRIKB =	176592	ORTKS =	176500	CRIOUT	011615		176506
ORTES =	176504	CT	015126	C1CNTR		Cirego :	
CAREGS =	157770	CIREGT =	167774	COONTR	911626	C2FLAG	011630
careds =	167762	02R565_=			: 167764	DATALL	
DATAL	000672	DRTAS	900734	DEL	91,9569	DELAY	010166
OBLETE	010372	DELETS	010550	DELAG	024144	DIGITS	024044
DISEG	011641	DISFLG	011614	DISMDE	020422	DISPLA	001374
DISPLA	001524	DISPL2	001542	DISPLE		DISPL4	
DISPLS	901666	DISPL6	991722	DISPL7	001756	DISVOC	017566
015701	017622	015704	017676		: 104402	DIVTL	
D1V1	014200	D1V2	014202	DIV3	014204	DLETEG	011621
DR =	177570	DR1101	002360	DR1102	002512	DUMMY	014212
DUALT	991312	FEEEEE	024154	ENDNG	020504	ENDX	014152
ENTER	001024	ENTERO	000536	ENTER1	001156	ENTER2	001204
ERRORO	017816	ERROR1	017050	ETX	024042	FERT	002612
FERT10	002754	FERT11	003026	FERT20	003032	FERT6	
FERTZ	002740	FERT9	002746	FINDX	014154	HAP	011304
HAPM1	011302	HAPM2	011300	HAP128		HAP16	
HRP2	911362	HRP32	011520	HFIF'4	011416	HRF64	011554
нарз	011430	HASH	023510	HASHNG		HOLDT	
ICNTR4	023474	ICNTR2	023476	INPUTØ	023424	INROUT	016332
ITERAT	011656	KEYFLG	011635	KEYWD1	01.6764		016774
KEYNOR	020602	KEYWRD	016722	KEY1	020630	KEY2	020710
KEY3	020712_	KEY4	929736	KEY6	021050	_KWD5U8_	_021122
KWDTBL	021074	LASO	010034	LDELAY	010252	LENGTH	014216
LIMIT	015040	MAXF1	014240	MAXLNG		MINLNG	011646
MUL =	194491	M1	016260	M2	016266	M3	016274
114	016302	M5	016310	ME	016316		016324
NEMB	017770	NEWRD	016656	NEWSPK	017726	NEWVOC	017066
NOPPC	014672	NORMAL	003044	NORM1	003060	NORM10	003362
NORM12	003550.	NORM14	003614	NORM15	003620	NORM2	003112
NORM20	004012	NORM22	004034	NORM24	004110	NORM26	004310
NORM28	004342	NORM3	903220	NORM30	004374	NORM32	004432
NORM4	003342	NOT	015042	NUMFLG	024040	NUMMDE	020326
NXTURD	011617	OPRMDE	020462	OUTPT2	010632	OUTPT3	010672
001916	010734_	<u>QUIRIR</u>	011012	_QUTPUT		OVER	010336
OVRFLN	010314	PPB =	177556		177554		177552
	177550	PUNCH	020130	PUNCH1	_020136_		020160
, RD	002314	READ	020010	READO	020020	READ1	020052
REPERT	010214	REPEEL	010306	REPFLG	024036		017166

REPLC1	017252	REPLC2	01726	2	REPLC3	017346	REPLO	4	017534
REPLC5	017440	REPLO6	01750	14	REPTEG	 011642	REFIR		017540
RESET	021322	RFLAG	02012	26	RNOT	014264	RPTFL	G	011636
<u>RSTART</u>	001152	SEARCH	91421		SENFG1	 011633	SENFG	2	.011634
SENFLG	024041	SENMDE	02026	_	SOB	104404	SPCHA	R	011022
SPCHFG	911612	SPCHR6	01111		SPOHRZ	 011246	SECSY	M	024122
SPCWRD	024114	SPKOUT	01161		SSSSSS	024152	START		014142
	104500	TCLASS	01163		TEMP	015044	TESTE		011632
TESTNG	004730	TIMNGT	01625		TINDX1	014144	TINDX		014146
TINDX3	014150		17756		TK5	177560	ILNGT		.014156
THPLAT	014266	TMPSTR	02415		TPB	177566	TPS	=	177564
TRAIN	002112	TRAIN1	00216		TRAIN2	 002334	IRN		_004652
TRNADD	023506	TRNFLG	01161		TRNMDE	020366	TRNSA		011652
TRN1	004700	TSTORF	01425	<u> </u>	<u>ISIORI</u>	 014250	TSTOR		014260
TSTORY	014262	TSTORX	01424		TSTRFX	014214	TSTRI	2	014252
TSTR14	014254	TSTTRN	00461		TST0	 004766	TST1		005042
TST10	005460 005122	TST2	00507		TST4	005110	TST4A		005120
<u> 7575</u> 774	021174	TST5A TTY0	<u>00514</u> 02125		<u>TST6</u> TTY1	 005142	<u> 1518</u>		005336
	011644					021302	TYPO		010060
UNYCTR YOCFG	023504	VFLAĞ VOICED	01164 01417	! \$	VOCAB WVF123	 021372 011662	<u>YOCAD</u> XOR		023502 104440
	024160	AOICEO	61417	.	MALTS	011662	AUR	=	104440
	024700					 			
END ?		•					•		
	000004	. =4				 			
880004		, WOI	RD.	+2.1	IALT.		•		
000006						 			
	000034	. =3	4						
999934		HAP				 			
666636	_	. WO	RD :	340					
	000060	. =6				 			
000060	021174	TTY				 			
	000070	. =7	0						
999979	020020	REA				 ·			
000072	000340	. WO	RD :	340					
	000370	. =3				 			
000370		ፐፐሃ				• •			
000372		. МО		<u> 340 </u>		 			
	000300	. = 3							
000300		. +2				 			
000302		HAL						•	
	000304		04			 			
14120204	002360	DR1						•	
	A A A &			- A G					
000306				340		 			
000306	000310	. =3	10	540					
000306 000310	000310 002512	. =3 DR1	10 102						
999319 999312	000310 002512 000340	. =3 DR1 . WO	10 102 RD :	340					
000306 000310 000312 000314	000310 002512 000340 002512	. #3 DR1 . WO DR1	10 102 RD : 102	340			· · · · · ·		
999319 999312	000310 002512 000340 002512 000340	. =3 DR1 . WO DR1 . WO	10 102 RD : 102 RD :	340 340					
990306 990310 990312 990314 990316	000310 002512 000340 002512 000340 167770	. =3 DR1 . WO DR1 . WO C1R	10 102 RD : 102 RD : EGS≈1	340 340 6777)					
000306 000310 000312 000314	000310 002512 000340 002512 000340 167770	. =3 DR1 . WO DR1 . WO C1R C1R	10 102 RD : 102 RD : EGS≈1 EGB≈1	340 340 6777 6777	2				
990306 990310 990312 990314 990316	000310 002512 000340 002512 000340 167770 167772	. = 3 DR1 . WO DR1 . WO . C1R C1R	10 1C2 RD 1C2 RD : EGS≈1 EGB≈1 EGT≈1	340 340 6777 6777	2 4				
990306 990310 990312 990314 990316	000310 002512 000340 002512 000340 167770	=3 DR1 W0 DR1 W0 C1R C1R C1R	10 102 RD : 102 RD : EGS≈1 EGB≈1	340 340 6777: 6777: 6776:	2 4 Ø				

	167764		C2REGT=:	1 67761		
	176504					
	176506		CRIPS=1			
	177566		TPB=177			•
	177564		TPS≃177			And the second s
	104401		MUL≃TRAI			•
	104402		DIV=TRA			The second secon
	104404		SO8≈TRA	_		
	104410		ASH≃TRAI			
	104420		ASHC=TR			
	104440		XOR=TRA			
	104500		SXI≃TRA			
	177570		DR=1775			, , , , , , , , , , , , , , , , , , , ,
	000500		. ≈500	(6)		
888588	012701		MOV	#VOCAB+1	050 .21	CLEAR VOCABULARY STORAG
000000	023424		1104	#100001	000.761) CLEOK YOCHBULHKY STOKING
989594	012700		MOV	#VOCAB, %	<u> — — — — — — — — — — — — — — — — — — —</u>	·
000004	021372		1101	#YOUNDS /A	•	
000510	005020		CLR	(0)+		
	020001		CMP	41.0		
	001375		ENE	4		
	012767		MOV	#VOCAB, V	ocepp	
222 242	021372			H I SOUTH	SOURCE DE	
	022756					
000524	995967		CLR	VOCEG		
	822754					
				•		
			PAGE	001		
000530	012767		MOV	#HASH, HA	SHNG	
	023510					
	023274					
000536		ENTER0:	MOV	DR. 21		GET DISPLAY REGISTER
	177026					
000542	020127		CMP	%1, #16.		
	000020					e de la companya del companya de la companya del companya de la companya del la companya de la c
	001410		BEQ		;16 BIT	CONFIGURATION
<u> </u>	020127		CMP	21, #24.		
•	000030					
	001405		BEQ	DATALL		; 24 BIT CONFIGURATION
000556	020127		CMP	%1,# 32.		
	000040					And the second s
	001402		BEQ	DATALL		32 BIT CONFIGURATION
	<u> </u>		HALT			PLEASE SELECT CONFIGURATION WIT
	000763		BR :	ENTERO		CLEAR HALT WHEN SWITCHES SET
<u>000570</u>		DATALL:	SUB	#16. , %1		
	000020					
<u> </u>			CLR	<u> %0</u>		
	104402		DIV	5.4		
999699	020027		CMP	X0,#4		
	000004		:			
000604	016067		MOY	M1(0), TL	NGTH	
	016260					
	013344		· ·			

000612	016067 016266		MOA	M2(0),TSTORF	
	013436				
000620	016067		MOV	M3(0),TSTORI	· · · · · · · · · · · · · · · · · · ·
	016274	•			
	013422				·
000626	016067		MOV	M4(0),TSTR12	
	016302				
	013416				
000634	016067		MOV	M5(0),TSTR14	
	016310			,	
	013412				
000642	016067		MOV	M6(0),TSTORT	
	_01631 <u>6</u> _				
	013410		•		
000650		·	MOV	M7(0) TSTORY	
	016324				
	013404			·	
	005002		CLR	%2	
999669			CLR	7.0	
000662			MOY	#77676,%1	
000000	<u> </u>		CUE	H That. TTP. Ata	
999999	162701		SUB	#TMPSTR, %1	
000672	<u>024156</u> 012760	DOTO1 ·	MOV	#177777, TMPSTR(0)
999612	177777	DHINE:	HOV	#1/////////////////////////////////////	<i>0)</i>
	024156				
000700	012760		MOV	#077400, TMPSTR+	2(9)
000100	077400	***************************************	MOY	#011400) INFSIKT	2(0)
	024160				•
000706	005060		CLR	TMPSTR+4(0)	
000.00	024162		CEN	1111 3110 4007	
•	00,100				
			PAGE	002	•
000712	_066700_		ADD	TSTORT. 20	
	013342				
000716	005202		INC	72	
000720	005202		INC	%2	
000722	020227		CMP	72, #1130	LIMIT TEMPLATES TO 300
	001130				,
000726	001402		BEQ	DATA2	
000730	020001		CMP	20,21	
000732	100757		E:MI	DATA1	
	010067	DATA2:	MOY	20, LIMIT	
	014100				·
000740	010267		MOV	%2, NOT .	; NO. OF TEMPLATES * 2 AVAILABLE
	014076				
000744	005067		CLR	RNOT	RUNNING COUNT OF TEMPLATES USED
	013314		·		
888758	912799		MOY	#NOPPC, %0	
	014672				
000754	012701		MOV	#NOPPC+102.,%1	
.:	<u>015040</u>				

000760 005020	CLR	(0)+
000762 020001	CMP	20, 21
000764 001375	BNE	4
000766 012700	MOV	#CT, %0
015126		
000772 012701	MOY	#CT+600. J %1
016256		
999776 912729	MOV	#077777, (0)+
977777		
001002 020001	<u>CNE</u>	79, 71
001004 001374	BNE	6
001006 012700	MOV	#IMPLAT. 20
014266		
001012 012701	MOY	#TMPLAT+130, , %1
014470	en en	103
991916 995929	CLR	(0)+
001020 020001 001022 001375	CMP	20, 21
001022 001373 001024 105067 ENTER:	BNE CLRB	4 SPCHFG ; WHEN SET, START TIME NORMALIZATION
919562	CERD	promps (when bel) blakt (the normalization
001030 105067	CLRB	TRNFLG ; WHEN SET, IN TRAINING MODE
010557	CCKD	IMALES (MUEM DEL) IN IMMINING HODE
001034 105067	CLRB	DISFLG ; WHEN SET, DISPLAY 100 WORDS W/ DISTANCE
919554	COND	DISTED TWICK SETT DISTENT 100 MORDS WY DISTINGE
001040 105067	CLRB	SENFLG
922775	- L. (L.	2-2011 Q
001044 105067	CLRB	NUMFLG
022770		
001050 105067	CLRB	KEYFLG
010561		
001054 105067	CLRB	SENFG1
<u>010553</u>		
001060 105067	CLRB	SENFG2
010550		
001064 105067	CLRB	RPTFLG
<u>010546</u>	· ·	
001070 105067	CLRB	CRTOUT ; WHEN SET, LA7700A LOCKED OUT
910521		
	PAGE	993
001074 105067	C1 DD	COVOUR THOSE SET COSSOL AND USED LARVES AND
010516	CLRB	SPKOUT : WHEN SET, SPEECH ANALYZER LOCKED OUT
001100_105067	CLRB	NXTWRD : WHEN SET, DO NOT REDISPLAY WORD FOR TRA
010513	CLRD	MATER SET DO NOT REDISTENT WORD FOR IKE
001104 105067	CLRB	CLASS ; CLASS INDEX(0 TO 143 OCTAL)
010510	WIET VID	CENTS / CENTS ANDERXO TO 143 OCT MEZ
001110 005067	CLR	CLASSX ; TEMPLATE INDEX (0 TO +199)
010506	191 Pro 1 V	
001114 005067	CLR	COURFG
022714		·
001120 005067	CLR	REPFLG
022712		
001124 105067	CLRB	ATNEG ; WHEN SET, ATN NETWORK IS ACTIVE, OTHERWI

	010501							
001130	012767		MOY	#177777,	INDX2			
	177777			1,				
	013010		•	•			·	
001136	005067		CLR	ICNTR1	; 11	NCREMENTED	FOR EACH CH	R RECEI
	022332						, i dit, ditait din	
001142	005067		CLR	ICNTR2	: 11	NCEEMENTER	FOR EACH CHE	POCTED
001176	022330	4	CEN	TORTINE	, 11	NCKENENTED	FUR ENGH CHI	IKHCIEK
001116	005067		CLR	CHRONT	···			
991140	022326		CER	CHRUNI				
004450		RSTART:	Mess	#500 U.C		TO 514 55 3 115		
997125		KSINKI:	HOA	#500,26	<i>i</i> 5	TACK POINT	EK	
	000500				·· · · · · · · · · · · · · · · · · · ·			
004456	465363	FUTER4	7.575	TOUGLO	j			
891156		ENTER1:	1518	TRINFLG				
	010431							
	001410		BEQ	ENTER2				
001164	105767		TSTB	RPTFLG				
	919446							
001170	001005		BNE	ENTER2				
001172	105767		TSTB	REPTFG				
	010444							
991176	001002		BNE	ENTER2				
991299	105267		INCB	CLASS				
	010414							
001204		ENTER2:	CLEB	DLETFG	LIHEN CET	. DELETE I	AST TRAINING	INPIIT
00,200	010411	C141 E1(E.	CENE		MITCH SET	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	LIIZI IKHIMIMO	1111 01
004240	005067		CLR	C1CNTR	WVF123 IN	TERRUPT CO	NINTED	
997219	010410		CER	CICHIK	MALTS IN	IERROFI G	JUNIER	
004044			61.6	COCNE	SISISIA CINIO	5115111 Third	ESSUET SOUNTE	
001214	005067		CLR	C2CNTR	HUHL HND	HHHAH INTI	ERRUPT COUNTE	ĸ
	<u>010406</u>							
001220	105067		CLRB	C2FLAG	DETERMINE	S WHETHER	AGAL OR AVAV	H DRTR
	<u>010404</u>							
081224	105067		CLRB	NXTURD				
	<u> </u>		· · · · · · · · · · · · · · · · · · ·					
001230	105067		CLRB	SPCHFG				
	<u>010356</u>							
001234	105067		CLRB	CRTOUT				
	010355			<u> </u>		•	_	
001240	005067		CLR	UNYCTR	; U	SED IN VO	ICED/UNVOICED	SMOOTHI
	010400		•					
001244	112767		MOVB	#7, VFLAG	; 11	SED IN VO	ICED/UNVOICED	SMOOTHI
	000007							2
	010371							
					•			
			PAGE	004				
			. 1106	eet.				
004252	105067		C) PP	CDVOUT				
991212			CLRB	SPKOUT	,			
004054	<u>010340</u>		<u> </u>		<u></u>		······································	
001236	105067		CLRB	REPTFG				
004060	<u>010360</u>		01.00	DICEO				
001262	105067		CLRB	DISFG				
	<u>010353</u>							
	000005		RESET				CE REGISTERS	
001270	012767		MOY.	#40,C1RE	i5 E	NABLE REQ	_B_FROM_DR11C	1

000040			
166472			•
001276 012767	ΜÓΫ	.#140, C2I	REGS ; ENABLE REQ A, B FROM DR11C2
000140	· · · · · · · · · · · · · · · · · · ·		
166454			
001304 012767	MOY	#101, CR	TKS : ENABLE CRT
000101			
175166			
001312 105767 DW	AIT: TSTB	SPCHFG	
010274			
001316 001402	BEQ	. +6	
001320 000167	JMP	NORMAL	; BEGIN TIME NORMALIZATION
001520			,
<u>001324 005767</u>	757	COURFG	; WHEN SET, PROCESS CRT DATA
022504			•
<u> </u>	BEQ	. +6	
001332 004767	JSR	7, INROU	JT · ·
914774			
001336 105767	TSTB	TRNFLG	
010251			
001342 001405	BEQ	. +12.	J NO
001344 105767	<u>TSTB</u>	NXTWRD	
010247			
001350 001002	BNE	. +6	
001352 000167	JMP	TRAIN	,
. 000534			
001356 004767	JSR	7, DISPL	.fl
000012			
891362 105767	TSTB	DLETFG	DELETE LAST WORD IN TRAINING ?
010233		•	
801366 001751	BEQ	DWAIT	; NO
001370 000167	JMP	DELETE	; YES
006776			
001374 105767 DI	SPLA: TSTB	DISFG	
010241			
001400 001401	BEQ	. +4	
001402 000207	RTS	7	
001404 005067	CLR	ICNTR1	
922964	7		
001410 005067	CLR	ICNTR2	
922962	<u> </u>		
001414 012700	MOV	#1,20	; FUNCTION CMD
999991	1051		4 1 211 21 4 4 11 21 32 11 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
001420 004767	JSR	7, TYP0	
996434	<u></u>		
801424 012700	MOY	#12, %0	GET PRESENT CURSOR LOCATION
000012		#AEJ (45)	JOEL LABORIO CORSUN LOCALIUM
801438 004767	JSR	7, ፲ሂዮ0	
006424	<u> </u>		
737060			·
	PAGE	005.	
	11102	C1 C1 C1	
001434 000001	WAIT	·	PRESENT COLUMN POSITION
001434 000001 001436 000001	WAIT		; PRESENT ROW POSITION
<u> </u>	MUT T		ALDERII ROM CUSTIIUN

001440	012700 000001		YOM	#1,20	; FUNCTION CMD
991444	004767 006410	·	JSR	7, TÝPO	
991459	012700 000003		MOV	#3,20	MOV CURSOR TO BOTTOM LEFT CO
801454	004767 006400	-	JSR	7, TYP0	
001460	005000		CLR	20	
001462			JSR	7. TYF0	
001466		·····	MOV	#24%0	
001472	000030 004767		JSR	7x TYP0.	· · · · · · · · · · · · · · · · · · ·
981476	006362 <u>105767</u>		TSTB	TRNFLG	; OUTPUT SYSTEM MODES OF OPERATIO
	010111				
	<u> 991419 </u>		BEQ	DISPL1	
801504	012700 <u>046524</u>		MOV	#"TM, %0	
001510	004767 006344		JSR	7, TYP0	
881514	000300		SNAB	20	
	004767		JSR	7, TYP0	
	006336				·
	000407		BR	DISPL2	
001524	012700 C 046517	ISPL1:	MOV	#"OM, %0	
001530	004767 006324		JSR	7, TYP0	
881534	000300		SWAE	20	
	004767		JSR	7, TYPO	
	006316	· · · · · · · · · · · · · · · · · · ·			
001542	112700 C	ISPL2:	MOVB	#1 ,20	· · · · · · · · · · · · · · · · · · ·
	000040				
001546	004767		JSR	7, TYP0	
	006306			•	
001552	<u> 105767</u>		TSTB	ATNEG	
001550	010053		Pak I PP		
	<u>001007</u> 012700		BNE MOV	#"AT,%0	
991709	052101		1104	# 111776	
881564	004767		JSR	7, TYPO	
002004	006270		₩	, , , , , , ,	•
001570	000300		SWAB	20	
	004767		JSR	7, TYP0	
001576	006262 112700 D	ISPL3:	MOVE	#1 280	
	000040 004767		JSR	7, TYPO	
001606	006252 105767		TSTE	SENFG1	
	010021 001407		BEQ	DISPL4	
001015	JUA 701				

	F	AGE 0	106
001614 012700	t4	OV#	*"SM, %0
046523			
001620 004767	.1.	<u> SR 7</u>	% TYP0
906234		- 1''	
001624 000300	5.	N68	<u> </u>
891626 994767			7, TYPO
006226	*		7 1 1 2
991632 112799	DISPL4: M	OVB #	1 , 20
000040			
001636 004767	J	SR 7	7, TYP0
996216			
001642 105767	Т	STB N	IUMFLG
022172			The state of the state of 1770 to the state of the state
001646 001407	B	EQ D	PISPL5
<u> </u>		<u> </u>	F., NW. 20
046516			
001654 004767	J	<u>SR 7</u>	7, TYP0
006200			
<u> </u>			<u> </u>
001662 004767	J	SR 7	7, TYP0
006172_			and the state of t
001666 112700	DISPL5: M	OVB #	¥1 √20
000040			
001672 004767	$_{,}\mathbf{J}$	SR 7	7, TYPO
996162			
001676 105767	Т	STB [)FLAG
<u> </u>			
001702 001407			DISPL6
001704 012700		COV	<u>#"DM, %0</u>
046504	•	co :	7. TYPO
<u>001710 004767</u> 006144		<u> </u>	
001714 000300	c	NAB :	ia
001716 004767			7, TYPO ·
006136	·		71110
991722 112700	DISPL6: M	OVB (1 ,20
000040	· · · · · · · · · · · · · · · · ·		· · · · ·
001726 004767	J	SR :	7, TYPO
986126			
001732 105767	Т	STB I	KEYFLG
007677			
001736 001407	₽:	EQ (DISPL7
001740 012700	11	07 (# " SS, %0
951523	•		•
001744 004767	J	<u> 5R :</u>	7, TYP0
006110			
001750 000300			¥0
001752 004767	J	SR :	7, TYPO
996192			
. 001756 112700	DISPL7: M	OVB (#^ → X0
999949			

001762	004767 006072		JSR	7. TYPO					
001766			CLR	20	CHITCHIT	THE	NUMBER	05	TEMPLATES
991779			CLR CLR	7.0 7.2	7001501	1115	NONDEK	ŲΓ	IENTLH IES
001772			MOV	RNOT, 71					
001/72	018701 012266		14CtA	KNO1721					
	015500								
			PRGE	007					
		<u>-</u>							
<u> </u>			<u>ASHC</u>						
002000	020027		CMP	%0,#10.					
	<u>000012</u>								
002004	062700		ADD	#60,%0					
	000060								
002010	004767		JSR	7, TYPO					
	006044								
002014	005000		CLR	20					
002016	194429		ASHC.						
002020	020027		CMP	%0,#3					
	000003								
002024			INC	%2					
002026			CMP	22.#3					
	000003	,							
002032			BNE						
	012700		MOV	#1401,20					
002051	001401		11001	11 10 17 180					
002040	004767		JSR	7, TYPO					,
002040	006014			.,					
002044	000300		SWAB	20					
002046			JSR	7. TYP0					
_0000	006006								
002052			MOY	ICNTR1, 21					
_002002	021416			4 5 11 15 42 144					
002056			MOVB	INFUT0-2(1), %0					
_002000	023422		119.14						· · · · · · · · · · · · · · · · · · ·
002062		-	JSR	7. TYP0					
202202	995772		9 218	I I I I I I I I I I I I I I I I I I I					
002066	116199		MOVB	INPUT0-1(1), %0					
. 402000	023423	•	HOYD	AMINITOR CANADA					•
002072			JSR	7) TYPO					
302012	005762		A = 10.	171110					
002076			JSR	7, RESET					
002010	017220		V =/11	1 2 INC. 21C. 1					
002102			MOVB	#7,DISFG					
OOKTOK	000007		110 7 Et	HIVE LOUG					
	007531				ર				
002110	000207		RTS	7					
996110	200601		j	•					
002442	112767 7	SOTH.	; MOUD	47 NOTURA	. None	DIC	OL OUTS	C1 C1	DOED OFTED
005115	999997	NUT IN :	MOVE	#7, NXTWRD	; WORD	<u> </u>	CLDIED,	<u> </u>	<u>ared after _</u>
000400	007477		MOUD	C1 6CC 9E					
007170	116705		MOVB	CLASS, %5					
<u> </u>	007474	·							

902126 020527 CMP X5,#10. 902132 962705 ADD #VOCAB,X5 921372 902136 910501 MOY X5,X1 902140 962701 ADD #10.,X1 902144 962701 MOY #31,X0 902144 962700 MOY #31,X0 902159 904767 JSR 7,TYPO 905704 PAGE 010 902150 904767 JSR 7,DELAY 902160 912500 TRAIN1: MOY (5)+,X0 902162 904767 JSR 7,TYPO 902163 90300 SNAB X0 902170 904767 JSR 7,TYPO 902170 904767 JSR 7,TYPO 902170 904767 JSR 7,TYPO 902176 901370 BNE TRAIN1	CMP	****				•	
099012 092132 062705 ADD #VOCAB, %5 021372 092136 010501 MOV %5, %1 092140 062701 ADD #10., %1 090912 092144 012700 MOV #31, %0 090931 092150 004767 JSR 7, TYPO 095704 PAGE 010 092154 094767 JSR 7, DELAY 096006 092160 012500 TRAIN1: MOV (5)+, %0 092162 094767 JSR 7, TYPO 005672 002166 000300 SNAB %0 092170 094767 JSR 7, TYPO 005664 092174 020501 CMP %5, %1 092176 001370 BNE TRAIN1	ADD #YOCAB, %5 MOV %5, %1 ADD #10., %1 MOV #31, %0 JSR 7, TYPO PAGE 010 JSR 7, DELAY AIN1: MOV (5)+, %0 JSR 7, TYPO SWAB %0						•
992132 962705 ADD #YOCAB, %5 921372 992136 919591 MOV %5, %1 992140 962791 ADD #10, %1 999912 992144 912709 MOV #31, %0 999931 992150 904767 JSR 7, TYPO 905704 PAGE 919 982154 904767 JSR 7, DELAY 996006 892160 912509 TRAIN1: MOV (5)+, %0 992162 904767 JSR 7, TYPO 905672 902166 909300 SNAB %0 902170 904767 JSR 7, TYPO 905664 902176 909370 BNE TRAIN1	MOV %5,%1 ADD #10,,%1 MOV #31,%0 JSR 7,TYPO PAGE 010 JSR 7,DELAY AIN1: MOV (5)+,%0 JSR 7,TYPO SWAB %0	992126	020527		CMP	%5,#10 <u> </u>	
021372 002136 010501 MOV X5, X1 002140 062701 ADD #10., X1 000012 002144 012700 MOV #31, X0 000031 002150 004767 JSR 7, TYPO 005704 PAGE 010 002154 004767 JSR 7, DELAY 006006 002160 012500 TXAIN1: MOV (5)+, X0 002162 004767 JSR 7, TYPO 005672 002166 000300 SNAB X0 002170 004767 JSR 7, TYPO 005664 002174 020501 CMP X5, X1 002176 001370 BNE TRAIN1	MOV %5,%1 ADD #10,,%1 MOV #31,%0 JSR 7,TYPO PAGE 010 JSR 7,DELAY AIN1: MOV (5)+,%0 JSR 7,TYPO SWAB %0		000012			•	
021372 002136 010501 MOV X5, X1 002140 062701 ADD #10., X1 000012 002144 012700 MOV #31, X0 000031 002150 004767 JSR 7, TYPO 005704 PAGE 010 002154 004767 JSR 7, DELAY 006006 002160 012500 TXAIN1: MOV (5)+, X0 002162 004767 JSR 7, TYPO 005672 002166 000300 SNAB X0 002170 004767 JSR 7, TYPO 005664 002174 020501 CMP X5, X1 002176 001370 BNE TRAIN1	MOV %5,%1 ADD #10,,%1 MOV #31,%0 JSR 7,TYPO PAGE 010 JSR 7,DELAY AIN1: MOV (5)+,%0 JSR 7,TYPO SWAB %0	992132	962795		ADD	#V00A8.25	
002136 010501 MOV X5,X1 002140 062701 ADD #10.,X1 000012 002144 012700 MOV #31,X0 000031 002150 004767 JSR 7,TYPO 005704 PAGE 010 002154 004767 JSR 7,DELAY 006006 002160 012500 TXAIN1: MOV (5)+,X0 002162 004767 JSR 7,TYPO 005672 002166 000300 SWAB X0 002170 004767 JSR 7,TYPO 005664 002174 020501 CMP X5,X1 002176 001370 BNE TRAIN1	ADD #10.,%1 MOV #31,%0 JSR 7,TYPO PAGE 010 JSR 7,DELAY AIN1: MOV (5)+,%0 JSR 7,TYPO SWAB %0	<u> </u>		 -	1100	# 7 0-0-112-7 78-0-	
882148 962701	ADD #10.,%1 MOV #31,%0 JSR 7,TYPO PAGE 010 JSR 7,DELAY AIN1: MOV (5)+,%0 JSR 7,TYPO SWAB %0						
00012 002144 012700 MOV #31,%0 000931 002150 004767 JSR 7,TYPO 005704 PAGE 010 002154 004767 JSR 7,DELAY 006006 002160 012500 TRAIN1: MOV (5)+,%0 005672 005672 002166 000300 SWAB %0 002170 004767 JSR 7,TYPO 005664 002174 020501 CMP %5,%1 002176 001370 BNE TRAIN1	MOV #31,%0 JSR 7,TYPO PAGE 010 JSR 7,DELAY AIN1: MOV (5)+,%0 JSR 7,TYPO SWAB %0						
002144 012700 MOV #31,%0 000031 002150 004767 JSR 7,TYPO 005704 PAGE 010 002154 004767 JSR 7,DELAY 006006 002160 012500 TRAIN1: MOV (5)+,%0 005672 002166 000300 SWAB %0 002170 004767 JSR 7,TYPO 005664 002174 020501 CMP %5,%1 002176 001370 BNE TRAIN1	JSR 7, TYPO PAGE 010 JSR 7, DELAY AIN1: MOV (5)+, %0 JSR 7, TYPO SWAB %0	002140	962791		ADD	#10. , %1	
002144 012700 MOV #31,%0 000031 002150 004767 JSR 7,TYPO 005704 PAGE 010 002154 004767 JSR 7,DELAY 006006 002160 012500 TRAIN1: MOV (5)+,%0 005672 002166 000300 SWAB %0 002170 004767 JSR 7,TYPO 005664 002174 020501 CMP %5,%1 002176 001370 BNE TRAIN1	JSR 7, TYPO PAGE 010 JSR 7, DELAY AIN1: MOV (5)+, %0 JSR 7, TYPO SWAB %0		000012				
000031 002150 004767	JSR 7, TYPO PAGE 010 JSR 7, DELAY AIN1: MOV (5)+, %0 JSR 7, TYPO SWAB %0	002144			MOU.	#74. Va	
802150 004767	PAGE 010 JSR 7,DELAY AIN1: MOV (5)+,%0 JSR 7,TYPO SWAB %0	002177			1107	#21776	
PAGE 010 002154 004767 JSR 7, DELAY 006006 002160 012500 TRAIN1: MOV (5)+,%0 002162 004767 JSR 7, TYPO 005672 002166 000300 SWAB %0 002170 004767 JSR 7, TYPO 005664 002174 020501 CMP %5,%1 002176 001370 BNE TRAIN1	PAGE 010 JSR 7,DELAY AIN1: MOV (5)+,%0 JSR 7,TYPO SWAB %0					<u></u>	
PAGE 010 002154 004767 JSR 7, DELAY 006006 002160 012500 TRAIN1: MOV (5)+,%0 002162 004767 JSR 7, TYPO 005672 002166 000300 SWAB %0 002170 004767 JSR 7, TYPO 005664 002174 020501 CMP %5,%1 002176 001370 BNE TRAIN1	JSR 7,DELAY :AIN1: MOV (5)+,%0 JSR 7,TYPO SWAB %0	002150	004767		JSR	7, TYPO	
PAGE 010 002154 004767 JSR 7, DELAY 006006 002160 012500 TRAIN1: MOV (5)+,%0 002162 004767 JSR 7, TYPO 005672 002166 000300 SWAB %0 002170 004767 JSR 7, TYPO 005664 002174 020501 CMP %5,%1 002176 001370 BNE TRAIN1	JSR 7,DELAY :AIN1: MOV (5)+,%0 JSR 7,TYPO SWAB %0		005704				
982154 904767 JSR 7, DELAY 906006 902160 912500 TRAIN1: MOV (5)+,%9 902162 904767 JSR 7, TYPO 905672 902166 900300 SWAB %0 902170 904767 JSR 7, TYPO 905664 902174 920501 CMP %5,%1 802176 901370 BNE TRAIN1	JSR 7,DELAY :AIN1: MOV (5)+,%0 JSR 7,TYPO SWAB %0		<u> </u>				
982154 904767 JSR 7, DELAY 906006 902160 912500 TRAIN1: MOV (5)+,%9 902162 904767 JSR 7, TYPO 905672 902166 900300 SWAB %0 902170 904767 JSR 7, TYPO 905664 902174 920501 CMP %5,%1 802176 901370 BNE TRAIN1	JSR 7,DELAY :AIN1: MOV (5)+,%0 JSR 7,TYPO SWAB %0				BAAF .	040	
006006 002160 012500 TRAIN1: MOV (5)+,%0 002162 004767 JSR 7, TYPO 005672 002166 000300 SWAB %0 002170 004767 JSR 7, TYPO 005664 002174 020501 CMP %5,%1 002176 001370 BNE TRAIN1	:AIN1: MOV (5)+,%0 JSR 7,TYPO SWAB %0				FHUL	<u>010</u>	
006006 002160 012500 TRAIN1: MOV (5)+,%0 002162 004767 JSR 7, TYPO 005672 002166 000300 SWAB %0 002170 004767 JSR 7, TYPO 005664 002174 020501 CMP %5,%1 002176 001370 BNE TRAIN1	:AIN1: MOV (5)+,%0 JSR 7,TYPO SWAB %0						
006006 002160 012500 TRAIN1: MOV (5)+,%0 002162 004767 JSR 7, TYPO 005672 002166 000300 SWAB %0 002170 004767 JSR 7, TYPO 005664 002174 020501 CMP %5,%1 002176 001370 BNE TRAIN1	:AIN1: MOV (5)+,%0 JSR 7,TYPO SWAB %0	002154	994767		JSR	7, DELAY	
802160 012500 TRAIN1: MOV (5)+,%0 802162 004767	JSR 7, TYPO SNAB %0		006006				
002162 004767	JSR 7, TYPO SNAB %0	000460		T 50 T 114	Maria	185 . 185	
905672 802166 800300 SWAB %0 802170 804767 JSR 7, TYPO 805664 802174 820501 CMP %5, %1 802176 801370 BNE TRAIN1	SNAB %0			IKMINI:			
002166 000300 SWAB %0 002170 004767 JSR 7,TYPO 005664 002174 020501 CMP %5,%1 002176 001370 BNE TRAIN1		992162	004767		JSR	7, TYPO	
002170 004767 JSR 7, TYPO 005664 002174 020501 CMP 25, %1 002176 001370 BNE TRAIN1			005672				
002170 004767 JSR 7, TYPO 005664 002174 020501 CMP 25, %1 002176 001370 BNE TRAIN1		992166	000700		SNAR	20	
005664 <u>002174 020501 CMP %5,%1</u> 002176 001370 BNE TRAIN1							
002174 020501 CMP 25,21 002176 001370 BNE TRAIN1	USR // TYPO	005110			UDK	() IYPU	
002176 001370 BNE TRAIN1							
	CMP %5, %1	002174	<u> </u>		CMP	25, 21	
	BNE TRAIN1	002176	001370		BNE	TRAIN1	
992200 012700	MQV #40, %0						
000040		002200			11011	#707/60	
		002204			JSR	7, TYPO	
005650	JSR 7,TYPO		005650				
002210 004767 JSR 7,TYPO	JSR 7,TYPO	002210	004767		JSR	7. TYPO	•
005644							
	JSR 7,TYPO	000044			~ ~ c.	eere e	
	JSR 7, TYPO	002214			1218	KP I F L G	WHEN SET IN REPACE AND TRAIN MO
007416			007416				
002220 001445	JSR 7, TYPO	002220	001445		BEQ	TRAIN2	
	JSR 7, TYPO TSTB RPTFLG : WHEN SET IN REPACE AND IRAIN MO	892222	005367				The state of the s
997439	JSR 7, TYPO TSTB RPTFLG : WHEN SET IN REPACE AND IRAIN MO BEQ TRAIN2	JJ424.			020	1121111	
	JSR 7, TYPO TSTB RPTFLG : WHEN SET IN REPACE AND IRAIN MO	22000					the contract of the American specific and the second specific and the second specific specifi
	JSR 7, TYPO TSTB RPTFLG : WHEN SET IN REPACE AND IRAIN MO BEQ TRAIN2 DEC ITERAT						
002230 000167	JSR 7, TYPO TSTB RPTFLG : WHEN SET IN REPACE AND IRAIN MO BEQ TRAIN2 DEC ITERAT BEQ +6	<u> </u>	<u> 999167</u>		JMP	DWAIT	
177056	JSR 7, TYPO TSTB RPTFLG : WHEN SET IN REPACE AND IRAIN MO BEQ TRAIN2 DEC ITERAT		177056				
	JSR 7, TYPO TSTB RPTFLG : WHEN SET IN REPACE AND IRAIN MO BEQ TRAIN2 DEC ITERAT BEQ +6	662274			MOVE	TRNSAV+2. CLASS	
- 002274 116767 - MOVR : TRNSQV+2.0LASS	JSR 7, TYPO TSTB RPTFLG :WHEN SET IN REPACE AND IRAIN MO BEQ TRAIN2 DEC ITERAT BEQ +6 JMP DWAIT	7336637			ــــــــــــــــــــــــــــــــــــــ	_HNU-UXX &ZAEDA&L	entered to be a second of the
	JSR 7, TYPO TSTB RPTFLG : WHEN SET IN REPACE AND IRAIN MO BEQ TRAIN2 DEC ITERAT BEQ +6						
007414	JSR 7, TYPO TSTB RPTFLG :WHEN SET IN REPACE AND IRAIN MO BEQ TRAIN2 DEC ITERAT BEQ +6 JMP DWAIT						
007414 	JSR 7, TYPO TSTB RPTFLG ; WHEN SET IN REPACE AND IRBIN MO BEQ TRAIN2 DEC ITERAT BEQ +6 JMP DWAIT MOYB TRNSAV+2, CLASS	002242	105067		CLRB	RPTFLG	
007414	JSR 7, TYPO TSTB RPTFLG ; WHEN SET IN REPACE AND IRBIN MO BEQ TRAIN2 DEC ITERAT BEQ +6 JMP DWAIT MOYB TRNSAV+2, CLASS		007370			•	
007414 	JSR 7, TYPO TSTB RPTFLG ; WHEN SET IN REPACE AND IRBIN MO BEQ TRAIN2 DEC ITERAT BEQ +6 JMP DWAIT MOYB TRNSAV+2, CLASS	002246			CLEE	TONEL C	
007414 007356 002242 105067 CLRB RPTFLG 007370	JSR 7, TYPO TSTB RPTFLG ; WHEN SET IN REPACE AND IRBIN MO BEQ TRAIN2 DEC ITERAT BEQ +6 JMP DWAIT MOVB TRNSAY+2, CLASS CLRB RPTFLG	002270			SUND	CONTRACTOR	
007414 007356 002242 105067 CLRB RPTFLG 007370 002246 105067 CLRB TRNFLG	JSR 7, TYPO TSTB RPTFLG ; WHEN SET IN REPACE AND IRBIN MO BEQ TRAIN2 DEC ITERAT BEQ +6 JMP DWAIT MOVB TRNSAY+2, CLASS CLRB RPTFLG						
007414 007356 002242 105067 CLRB RPTFLG 007370 002246 105067 CLRB TRNFLG 007341	JSR 7, TYPO TSTB RPTFLG ; WHEN SET IN REPACE AND IRBIN MO BEQ TRAIN2 DEC ITERAT BEQ +6 JMP DWAIT MOYB TRNSAY+2, CLASS CLRB RPTFLG CLRB TRNFLG	002252			MOVE	非75 BTNEG	; PRINT O.K.
007414 007356 002242 105067 CLRB RPTFLG 007370 002246 105067 CLRB TRNFLG 007341 002252 112767 MOVB #7, ATNFG ; FRINT O. K.	JSR 7, TYPO TSTB RPTFLG ; WHEN SET IN REPACE AND IRBIN MO BEQ TRAIN2 DEC ITERAT BEQ +6 JMP DWAIT MOVB TRNSAV+2, CLASS CLRB RPTFLG CLRB TRNFLG		_000007				د د د د د د د د د د د د د د د د د
007414 007356 002242 105067 CLRB RPTFLG 007370 002246 105067 CLRB TRNFLG 007341 002252 112767 MOVB #7, ATNFG ; FRINT O. K.	JSR 7, TYPO TSTB RPTFLG ; WHEN SET IN REPACE AND IRBIN MO BEQ TRAIN2 DEC ITERAT BEQ +6 JMP DWAIT MOVB TRNSAV+2, CLASS CLRB RPTFLG CLRB TRNFLG						
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007414 007356 002242 105067 CLRB RPTFLG 007370 002246 105067 CLRB TRNFLG 007341 002252 112767 MOVB #7, ATNFG ; PRINT O. K. 000007 007351	JSR 7, TYPO TSTB RPTFLG ; WHEN SET IN REPACE AND IRBIN MO BEQ TRAIN2 DEC ITERAT BEQ +6 JMP DWAIT MOVE TRNSAV+2, CLASS CLRB RPTFLG CLRB TRNFLG MOVE #7, ATNFG ; PRINT O. K.	002200		•	170 7	#P.U. 162	
007414 007356 002242 105067 CLRB RPTFLG 007370 002246 105067 CLRB TRNFLG 007341 002252 112767 MOVB #7,ATNFG ;PRINT O.K. 000007 007351 002260 012702 MOV #RD,%2	JSR 7, TYPO TSTB RPTFLG ; WHEN SET IN REPACE AND IRBIN MO BEQ TRAIN2 DEC ITERAT BEQ +6 JMP DWAIT MOVE TRNSAV+2, CLASS CLRB RPTFLG CLRB TRNFLG MOVE #7, ATNFG ; PRINT O. K.						
007414 007356 002242 105067 CLRB RPTFLG 007370 002246 105067 CLRB TRNFLG 007341 002252 112767 MOVB #7,ATNFG ;PRINT O.K. 000007 007351 002260 012702 MOV #RD,%2 002314	JSR 7, TYPO TSTB RPTFLG ; WHEN SET IN REPACE AND IRAIN MO BEQ TRAIN2 DEC ITERAT BEQ +6 JMP DWAIT MOYB TRNSAY+2, CLASS CLRB RPTFLG CLRB TRNFLG MOYB #7, ATNFG ; PRINT O. K.	<u>002264</u>			MOY	#RD+18 , 21	
007414 007356 002242 105067	JSR 7, TYPO TSTB RPTFLG ; WHEN SET IN REPACE AND IRAIN MO BEQ TRAIN2 DEC ITERAT BEQ +6 JMP DWAIT MOYB TRNSAY+2, CLASS CLRB RPTFLG CLRB TRNFLG MOYB #7, ATNFG ; PRINT O. K.		000000				
007414 007356 002242 105067 CLRB RPTFLG 007370 002246 105067 CLRB TRNFLG 007341 002252 112767 MOVB #7,ATNFG ;PRINT O.K. 000007 007351 002260 012702 MOV #RD,%2 002314	JSR 7, TYPO TSTB RPTFLG ; WHEN SET IN REPACE AND IRAIN MO BEQ TRAIN2 DEC ITERAT BEQ +6 JMP DWAIT MOYB TRNSAY+2, CLASS CLRB RPTFLG CLRB TRNFLG MOYB #7, ATNFG ; PRINT O. K.		992336				
007414 007356 002242 105067	JSR	992279			MOV	(2)+,20	
002174 020501 CMP 25,21 002176 001370 BNE TRAIN1							
002174 020501 CMP 25,21 002176 001370 BNE TRAIN1	USK () LYPU	002170			<u>JSR</u>	7, TYP0	
005664 <u>002174 020501 CMP %5,%1</u> 002176 001370 BNE TRAIN1							·
005664 <u>002174 020501 CMP %5,%1</u> 002176 001370 BNE TRAIN1	166 7 TUBO				SNAB		•
002170 004767 JSR 7, TYPO 005664 002174 020501 CMP 25, %1 002176 001370 BNE TRAIN1		002166	000300		SNAB	20	
002170 004767 JSR 7, TYPO 005664 002174 020501 CMP 25, %1 002176 001370 BNE TRAIN1		000466			CHOO	91.7	
002170 004767 JSR 7, TYPO 005664 002174 020501 CMP 25, %1 002176 001370 BNE TRAIN1							
002166 000300 SWAB %0 002170 004767 JSR 7,TYPO 005664 002174 020501 CMP %5,%1 002176 001370 BNE TRAIN1						.,	
002166 000300 SWAB %0 002170 004767 JSR 7,TYPO 005664 002174 020501 CMP %5,%1 002176 001370 BNE TRAIN1		992162	004767		JSR	7, TYPO	
905672 802166 800300 SWAB %0 802170 804767 JSR 7, TYPO 805664 802174 820501 CMP %5, %1 802176 801370 BNE TRAIN1	SWAB %0			113114134			
905672 802166 800300 SWAB %0 802170 804767 JSR 7, TYPO 805664 802174 820501 CMP %5, %1 802176 801370 BNE TRAIN1	SWAB %0			TRAIN1:	MOV	(5)+,20	
002162 004767	JSR 7, TYPO SNAB %0						
802160 012500 TRAIN1: MOV (5)+,%0 802162 004767	JSR 7, TYPO SNAB %0		006006			•	
802160 012500 TRAIN1: MOV (5)+,%0 802162 004767	JSR 7, TYPO SNAB %0	002154			JSR	7, DELAY	
006006 002160 012500 TRAIN1: MOV (5)+,%0 002162 004767 JSR 7, TYPO 005672 002166 000300 SWAB %0 002170 004767 JSR 7, TYPO 005664 002174 020501 CMP %5,%1 002176 001370 BNE TRAIN1	:AIN1: MOV (5)+,%0 JSR 7,TYPO SWAB %0						
006006 002160 012500 TRAIN1: MOV (5)+,%0 002162 004767 JSR 7, TYPO 005672 002166 000300 SWAB %0 002170 004767 JSR 7, TYPO 005664 002174 020501 CMP %5,%1 002176 001370 BNE TRAIN1	:AIN1: MOV (5)+,%0 JSR 7,TYPO SWAB %0		 		PAGE	010	
982154 904767 JSR 7, DELAY 906006 902160 912500 TRAIN1: MOV (5)+,%9 902162 904767 JSR 7, TYPO 905672 902166 900300 SWAB %0 902170 904767 JSR 7, TYPO 905664 902174 920501 CMP %5,%1 802176 901370 BNE TRAIN1	JSR 7,DELAY :AIN1: MOV (5)+,%0 JSR 7,TYPO SWAB %0			•		•	
982154 904767 JSR 7, DELAY 906006 902160 912500 TRAIN1: MOV (5)+,%9 902162 904767 JSR 7, TYPO 905672 902166 900300 SWAB %0 902170 904767 JSR 7, TYPO 905664 902174 920501 CMP %5,%1 802176 901370 BNE TRAIN1	JSR 7, DELAY :AIN1: MOV (5)+,%0 JSR 7, TYPO SWAB %0		005704				
PAGE 010 002154 004767 JSR 7, DELAY 006006 002160 012500 TRAIN1: MOV (5)+,%0 002162 004767 JSR 7, TYPO 005672 002166 000300 SWAB %0 002170 004767 JSR 7, TYPO 005664 002174 020501 CMP %5,%1 002176 001370 BNE TRAIN1	JSR 7, DELAY :AIN1: MOV (5)+,%0 JSR 7, TYPO SWAB %0	002130			OSK	77 1 1 F O	
PAGE 010 002154 004767 JSR 7, DELAY 006006 002160 012500 TRAIN1: MOV (5)+,%0 002162 004767 JSR 7, TYPO 005672 002166 000300 SWAB %0 002170 004767 JSR 7, TYPO 005664 002174 020501 CMP %5,%1 002176 001370 BNE TRAIN1	PAGE 010 JSR 7, DELAY AIN1: MOV (5)+, %0 JSR 7, TYPO SWAB %0	002150	994767		JSR	7. TYPO	
PAGE 010 002154 004767 JSR 7, DELAY 006006 002160 012500 TRAIN1: MOV (5)+,%0 002162 004767 JSR 7, TYPO 005672 002166 000300 SWAB %0 002170 004767 JSR 7, TYPO 005664 002174 020501 CMP %5,%1 002176 001370 BNE TRAIN1	PAGE 010 JSR 7, DELAY AIN1: MOV (5)+, %0 JSR 7, TYPO SWAB %0						
802150 004767	PAGE 010 JSR 7,DELAY AIN1: MOV (5)+,%0 JSR 7,TYPO SWAB %0			•	- '	··· · · •	
802150 004767	PAGE 010 JSR 7,DELAY AIN1: MOV (5)+,%0 JSR 7,TYPO SWAB %0	002144	012700		MOY	#31,20	
000031 002150 004767	JSR 7, TYPO PAGE 010 JSR 7, DELAY AIN1: MOV (5)+, %0 JSR 7, TYPO SWAB %0	333444					
002144 012700 MOV #31,%0 000031 002150 004767 JSR 7,TYPO 005704 PAGE 010 002154 004767 JSR 7,DELAY 006006 002160 012500 TRAIN1: MOV (5)+,%0 005672 002166 000300 SWAB %0 002170 004767 JSR 7,TYPO 005664 002174 020501 CMP %5,%1 002176 001370 BNE TRAIN1	JSR 7, TYPO PAGE 010 JSR 7, DELAY AIN1: MOV (5)+, %0 JSR 7, TYPO SWAB %0		000012			•	
090912 802144 012700 MOV #31, %0 000931 802159 004767 JSR 7, TYPO 005704 PAGE 010 902154 004767 JSR 7, DELAY 006006 802160 012500 TRAIN1: MOV (5)+, %0 902162 004767 JSR 7, TYPO 005672 802166 000300 SNAB %0 802170 004767 JSR 7, TYPO 005664 802174 020501 CMP %5, %1 802176 001370 BNE TRAIN1	MOV #31,%0 JSR 7,TYPO PAGE 010 JSR 7,DELAY AIN1: MOV (5)+,%0 JSR 7,TYPO SWAB %0	002140	962791		ADD	#10. 721	
00012 002144 012700 MOV #31,%0 000931 002150 004767 JSR 7,TYPO 005704 PAGE 010 002154 004767 JSR 7,DELAY 006006 002160 012500 TRAIN1: MOV (5)+,%0 005672 005672 002166 000300 SWAB %0 002170 004767 JSR 7,TYPO 005664 002174 020501 CMP %5,%1 002176 001370 BNE TRAIN1	MOV #31,%0 JSR 7,TYPO PAGE 010 JSR 7,DELAY AIN1: MOV (5)+,%0 JSR 7,TYPO SWAB %0						
882148 962701	ADD #10.,%1 MOV #31,%0 JSR 7,TYPO PAGE 010 JSR 7,DELAY AIN1: MOV (5)+,%0 JSR 7,TYPO SWAB %0	000456			MALL	*15" 814	
002136 010501 MOV X5,X1 002140 062701 ADD #10.,X1 000012 002144 012700 MOV #31,X0 000031 002150 004767 JSR 7,TYPO 005704 PAGE 010 002154 004767 JSR 7,DELAY 006006 002160 012500 TXAIN1: MOV (5)+,X0 002162 004767 JSR 7,TYPO 005672 002166 000300 SWAB X0 002170 004767 JSR 7,TYPO 005664 002174 020501 CMP X5,X1 002176 001370 BNE TRAIN1	ADD #10.,%1 MOV #31,%0 JSR 7,TYPO PAGE 010 JSR 7,DELAY AIN1: MOV (5)+,%0 JSR 7,TYPO SWAB %0	-	021772				
021372 002136 010501 MOV X5, X1 002140 062701 ADD #10., X1 000012 002144 012700 MOV #31, X0 000031 002150 004767 JSR 7, TYPO 005704 PAGE 010 002154 004767 JSR 7, DELAY 006006 002160 012500 TXAIN1: MOV (5)+, X0 002162 004767 JSR 7, TYPO 005672 002166 000300 SNAB X0 002170 004767 JSR 7, TYPO 005664 002174 020501 CMP X5, X1 002176 001370 BNE TRAIN1	MOV %5,%1 ADD #10,,%1 MOV #31,%0 JSR 7,TYPO PAGE 010 JSR 7,DELAY AIN1: MOV (5)+,%0 JSR 7,TYPO SWAB %0	002132	062705		ADD	#V0C88, 25	
021372 002136 010501 MOV X5, X1 002140 062701 ADD #10., X1 000012 002144 012700 MOV #31, X0 000031 002150 004767 JSR 7, TYPO 005704 PAGE 010 002154 004767 JSR 7, DELAY 006006 002160 012500 TXAIN1: MOV (5)+, X0 002162 004767 JSR 7, TYPO 005672 002166 000300 SNAB X0 002170 004767 JSR 7, TYPO 005664 002174 020501 CMP X5, X1 002176 001370 BNE TRAIN1	MOV %5,%1 ADD #10,,%1 MOV #31,%0 JSR 7,TYPO PAGE 010 JSR 7,DELAY AIN1: MOV (5)+,%0 JSR 7,TYPO SWAB %0		000012				
992132 962705 ADD #YOCAB, %5 921372 992136 919591 MOV %5, %1 992140 962791 ADD #10, %1 999912 992144 912709 MOV #31, %0 999931 992150 904767 JSR 7, TYPO 905704 PAGE 919 982154 904767 JSR 7, DELAY 996006 892160 912509 TRAIN1: MOV (5)+, %0 992162 904767 JSR 7, TYPO 905672 902166 909300 SNAB %0 902170 904767 JSR 7, TYPO 905664 902176 909370 BNE TRAIN1	MOV %5,%1 ADD #10,,%1 MOV #31,%0 JSR 7,TYPO PAGE 010 JSR 7,DELAY AIN1: MOV (5)+,%0 JSR 7,TYPO SWAB %0	002126			LMP.	%5, #10.	
099012 092132 062705 ADD #VOCAB, %5 021372 092136 010501 MOV %5, %1 092140 062701 ADD #10., %1 090912 092144 012700 MOV #31, %0 090931 092150 004767 JSR 7, TYPO 095704 PAGE 010 092154 094767 JSR 7, DELAY 096006 092160 012500 TRAIN1: MOV (5)+, %0 092162 094767 JSR 7, TYPO 005672 002166 000300 SNAB %0 092170 094767 JSR 7, TYPO 005664 092174 020501 CMP %5, %1 092176 001370 BNE TRAIN1	ADD #YOCAB, %5 MOV %5, %1 ADD #10., %1 MOV #31, %0 JSR 7, TYPO PAGE 010 JSR 7, DELAY AIN1: MOV (5)+, %0 JSR 7, TYPO SWAB %0					NE 846	
099012 092132 062705 ADD #VOCAB, %5 021372 092136 010501 MOV %5, %1 092140 062701 ADD #10., %1 090912 092144 012700 MOV #31, %0 090931 092150 004767 JSR 7, TYPO 095704 PAGE 010 092154 094767 JSR 7, DELAY 096006 092160 012500 TRAIN1: MOV (5)+, %0 092162 094767 JSR 7, TYPO 005672 002166 000300 SNAB %0 092170 094767 JSR 7, TYPO 005664 092174 020501 CMP %5, %1 092176 001370 BNE TRAIN1	ADD #YOCAB, %5 MOV %5, %1 ADD #10., %1 MOV #31, %0 JSR 7, TYPO PAGE 010 JSR 7, DELAY AIN1: MOV (5)+, %0 JSR 7, TYPO SWAB %0	002124	104401		MUL		•
902126 020527 CMP X5,#10. 902132 962705 ADD #VOCAB,X5 921372 902136 910501 MOY X5,X1 902140 962701 ADD #10.,X1 902144 962701 MOY #31,X0 902144 962700 MOY #31,X0 902159 904767 JSR 7,TYPO 905704 PAGE 010 902150 904767 JSR 7,DELAY 902160 912500 TRAIN1: MOY (5)+,X0 902162 904767 JSR 7,TYPO 902163 90300 SNAB X0 902170 904767 JSR 7,TYPO 902170 904767 JSR 7,TYPO 902170 904767 JSR 7,TYPO 902176 901370 BNE TRAIN1	CMP	002424	464464		MIII		
0902126 020527 CMP X5,#10 909012 909012 4VOCAB,X5 021372 902136 910501 MOY X5,X1 902140 962701 ADD #10,X1 900012 902144 962701 MOY #31,X0 900031 902150 904767 JSR 7,TYPO 7,TYPO 905704 PAGE 010 9000000 9000000 9000000 9000000 9000000 9000000 9000000 9000000 9000000 9000000 9000000 9000000 9000000 9000000 9000000 9000000 9000000 9000000 90000000 90000000 90000000	CMP					•	

002272	004767		JSR	7, TYPO
	<u> 995562</u>			
	000300		SWAB	20
002300	004767		<u>JSR</u>	7, TYP0
	005554			
092394	020201		CMP	72,71
	001370		BNE	. +14.
002310			JMP	ENTER2
0023.00	176670		VIII.	CITIENS
000044		E.B.	05011	IDEBLASE ASSET
002314		<u>RD:</u>	.ASCII	/REPLACE COMPLETE/
002315	105			
992316.	120			1
002317	114	•		
992320	101			
002321	103			•
_092322	105		•	
002323	040			t de la company
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			PAGE	011
			FRUE	611
002324	103	-		·
002325	117			
002326	115			10 10 10 10 10 10 10 10 10 10 10 10 10 1
002327	120			
892339	114	<del></del>		
<u> </u>	195			
002332	124			
002333	105			
- 002774	- イクムフラフ	TRAIN2:	CMPB	CLASS, #100.
~~~~			· · · · · ·	02/100) #100.
	007260			0211020 #200.
	007260 000144		BEQ	· +6
002342	007260			. +6
002342	007260 000144 001402 000167		BEQ	
<u>002342</u> 002344	007260 000144 001402 000167 176742		BEQ JMP	.+6 DWAIT
<u>002342</u> 002344	907260 909144 901402 909167 176742 195967		BEQ	. +6
<u>802342</u> 802344 802350	007260 000144 001402 000167 176742 105067 007244		BEQ JMP CLRB	+6 DWAIT CLASS
<u>802342</u> 802344 802350	007260 000144 001402 000167 176742 105067 007244 000167		BEQ JMP	.+6 DWAIT
<u>802342</u> 802344 802350	007260 000144 001402 000167 176742 105067 007244		BEQ JMP CLRB	+6 DWAIT CLASS
002342 002344 002350 002354	007260 000144 001402 000167 176742 105067 007244 000167 176624		BEO JMP CLRB JMP	+6 DWAIT CLASS ENTER2 : RETURN TO DECISION WAIT LOOP
002342 002344 002350 002354	007260 000144 001402 000167 176742 105067 007244 000167 176624	DR11C1:	BEO JMP CLRB JMP	+6 DWAIT CLASS
002342 002344 002350 002354 002360	007260 000144 001402 000167 176742 105067 007244 000167 176624		BEO JMP CLRB JMP ; TSTB	+6 DWAIT CLASS ENTER2 ; RETURN TO DECISION WAIT LOOP SPKOUT
002342 002344 002350 002354 002369	007260 000144 001402 000167 176742 105067 007244 000167 176624 105767 007232 001404		BEQ JMP CLRB JMP ; TSTB BEQ	+6 DWAIT CLASS ENTER2 : RETURN TO DECISION WAIT LOOP SPKOUT +10
002342 002344 002350 002354 002369	007260 000144 001402 000167 176742 105067 007244 000167 176624 105767 007232 001404 016767		BEO JMP CLRB JMP ; TSTB	+6 DWAIT CLASS ENTER2 ; RETURN TO DECISION WAIT LOOP SPKOUT
002342 002344 002350 002354 002369	907260 909144 9091402 909167 176742 105067 907244 909167 176624 195767 907232 901494 916767 165492		BEQ JMP CLRB JMP ; TSTB BEQ	+6 DWAIT CLASS ENTER2 : RETURN TO DECISION WAIT LOOP SPKOUT +10
992342 992344 992359 992354 992369 892364 892366	907260 909144 9091402 909167 176742 105067 907244 909167 176624 195767 907232 901404 916767 165402 911616		BEQ JMP CLRB JMP ; TSTB BEQ	+6 DWAIT CLASS ENTER2 : RETURN TO DECISION WAIT LOOP SPKOUT +10
992342 992344 992359 992354 992369 892364 892366	907260 909144 9091402 909167 176742 105067 907244 909167 176624 195767 907232 901494 916767 165492		BEQ JMP CLRB JMP ; TSTB BEQ	+6 DWAIT CLASS ENTER2 : RETURN TO DECISION WAIT LOOP SPKOUT +10
992342 992344 992359 992354 992369 892366 992374	907260 909144 9091402 909167 176742 105067 907244 909167 176624 195767 907232 901404 916767 165402 911616		BEQ JMP CLRB JMP ; TSTB BEQ MOV	.+6 DWAIT CLASS ENTER2 ; RETURN TO DECISION WAIT LOOP SPKOUT .+10. C1REGT, DUMMY
992342 992344 992359 992354 992369 892366 992374 992376	007260 000144 001402 000167 176742 105067 007244 000167 176624 105767 001404 016767 011616 000002	DR11C1:	BEQ JMP CLRB JMP ; TSTB BEQ MOV	+6 DWAIT CLASS ENTER2 : RETURN TO DECISION WAIT LOOP SPKOUT +10. C1REGT, DUMMY
992342 992344 992359 992354 992369 892366 992374 992376	007260 000144 000167 176742 105067 007244 000167 176624 105767 007232 001404 0167402 010046 016700	_DR11C1:	BEQ JMP CLRB JMP ; TSTB BEQ MOV	.+6 DWAIT CLASS ENTER2 ; RETURN TO DECISION WAIT LOOP SPKOUT .+10. C1REGT, DUMMY
992342 992344 992359 992354 992369 892366 992374 992376 992499	007260 000144 000167 176742 105067 007244 000167 176624 105767 007232 001404 0167402 010046 016700 007220	_DR11C1:	BEQ JMP CLRB JMP ; TSTB BEQ MOV RTI MOV MOV	.+6 DWAIT CLASS ENTER2 ; RETURN TO DECISION WAIT LOOP SPKOUT .+10. C1REGT, DUMMY 20,-(6) C1CNTR, X0
992342 992344 992359 992354 992369 892366 992374 992376 992499	007260 000144 000167 176742 105067 007244 000167 176624 105767 007232 001404 016767 01616 00002 010046 016700 007220 016760	_DR11C1:	BEQ JMP CLRB JMP ; TSTB BEQ MOV	+6 DWAIT CLASS ENTER2 : RETURN TO DECISION WAIT LOOP SPKOUT +10. C1REGT, DUMMY
992342 992344 992359 992354 992369 892366 992374 992376 992499	007260 000144 000167 176742 105067 007244 000167 176624 105767 007232 001404 016767 016760 016760 016700 016700 016700 016760	_DR11C1:	BEQ JMP CLRB JMP ; TSTB BEQ MOV RTI MOV MOV	.+6 DWAIT CLASS ENTER2 ; RETURN TO DECISION WAIT LOOP SPKOUT .+10. C1REGT, DUMMY 20,-(6) C1CNTR, X0
992342 992344 992359 992354 992369 992366 992376 992376 992499	007260 000144 000167 176742 105067 007244 000167 176624 105767 007232 001404 016767 016766 010002 010046 016700 007220 016760 165364 011662	DR11C1:	BEQ JMP CLRB JMP ; TSTB BEQ MOV RTI MOV MOV	.+6 DWAIT CLASS ENTER2 ; RETURN TO DECISION WAIT LOOP SPKOUT .+10. C1REGT, DUMMY 20,-(6) C1CNTR. X0 C1REGT, WYF123(0) ; STORE INTERRUPT DATA
992342 992344 992359 992354 992369 992366 992374 992499 992499	007260 000144 000167 176742 105067 007244 000167 176624 105767 007232 001404 016767 016760 016760 016700 016700 016700 016760	DR11C1:	BEQ JMP CLRB JMP ; TSTB BEQ MOV RTI MOV MOV	.+6 DWAIT CLASS ENTER2 ; RETURN TO DECISION WAIT LOOP SPKOUT .+10. C1REGT, DUMMY 20,-(6) C1CNTR, X0

002416	010067 007202	MOV	%0,010NTR) INCREMENT DR11C1 COUNTER
002422	005760 011660	TST	WVF123-2(0)	;TEST FOR WORD ONSET B
002426	100001	BPL		Transferred Community of the Community o
	000420	BR	+34	:DATA IS STILL COMING IN
002432	112767	MOVB	#7,SPKOUT	; INHIBIT DATA FROM ANALYZER
	000007			
	007156			
002440	112767	MOVB	#7.SPCHFG	
	000007	•		
	007144			
	000005	RESET		E ALL I/O DEVICES
<u>002450</u>	112767	MOVE	#7, CRIOUT	
	000007			
000186	007137	C:ME	MANUALC CACHER	TO COMPOSITE TAILOR OF THE LAND
002456	026767	CMP	MINENG, C1CNTR	; IS SPEECH INPUT LONG ENOUGH?
	007164 007140			
000464	100402	E:M I	. +6	; YES
	004767	JSR	7, REPEAT	; WORD LENGTH TOO SHORT
002400	005522	02.11	17 NEI EITT	WORD EEMail Too Short
	000022			
·.		PAGE	012	
002472	026767	CMP	MAXENG, C1CNTR	; IS SPEECH INPUT TOO LONG ?
	997152			
	007124			·
002500	100002	BPL	. +6	
002502	004767	JSR	7/OVRFLW	; INTERRUPT STORAGE OVERFLOW!!
	005606			
	012600	MOV	(6)+,%0	
002510	666662	RTI		; RETURN
7.7.7.11.1.1	1.000.00		P-12-3-100	A CONTRACTOR OF THE CASE OF TH
002512	105767 DR11C2:	TSTB	SPKOUT	
000546	<u> 997199</u> 991494	BEQ	. +10.	
	016767	MOV	C2REGT, DUMMY	
002320	165240	11014	CZREGI) DOMMY	
	011464			
002526	000002	RTI		
	010046	MOV	X0,-(6)	•
	010146	MOV	X1, -(6)	
	010246	MOV	X2, -(6)	
002536	010346	MOV	X3,-(6)	
002540	016700	MOV	,C2CNTR, %0	
	007062			
002544		TSTB	C2FLAG	; SET FOR AH + AVH REQ B
	007060			
	001007	BNE	. +16.	·
002552	016760	MOV	C2REGT, AGAL(0)	;REQ A
	165206			
	012502			
002560	112767	MOVB	#7,C2FLAG	

000007		
997942		
002566 000521 <u>002570 016760</u>	BR MOV	FERT20 C2REGT_AHAYH(0) ; REQ B
165170	1157 8	CAREGIT HITH LITTLE R
013322		
082576 105067	CLRB	C2FLAG
007026	2.2	
002602 005200	INC	20
002604 005200	1NC	29
002606 010067	MOV	%0,C2CNTR ; INCREMENT DR11C2 COUNTER
007014	·	
		<u> </u>
002612 016701 FERT:	MOV	C1CNTR, 21 ; VOICED/UNVOICED SMOOTHING NETWO
007006	****	· · · · · · · · · · · · · · · · · · ·
002616 032761	BIT	#40000,WVF123-2(1) ; CHECK VOICING BIT
949999		
011660		
002624 001021	BNE	FERT6
002626 105767	TSTB	YFLAG
007011		
002632 001045	BNE	FERT9
<u> </u>	MOVE	
012500		
802640 016003	MOY.	<u>8H8VH-2(0),23</u>
913329		
	PAGE	013
002644 105003	CLRB	23
002646 000303	SWAB	73
002650 162703	SUB	#3, %3
000003		
002654 020302	CMP	%3,%2 ;(AH-2) - AL
002656 100030	BPL	FERTY : DO NOT BOD VOICING BIT
002660 052761	BIS	#40000,WVF123-2(1)
949999	·	
011660		
002666 000461	BR	FERT20
002670 105767 FERT6	: TSTB	YFLAG
006747	F. F. C.	PPOTOS ASSETUIANTANI OF HALARA PPOMPIN
002674 001456	BEQ	FERT20 ; CONTINUATION OF VOICED SEGMENT
992676 116992 912599	MOVB	AGAL-2(0),%2
992792 996392	ASL:	72
002704 016003	MOY	AHAYH-2(0),%3
013320	HQ Y	HILLIAN 676/192
882710 105003	CLRB	χ3
002712 000303	SWAB	23
002714 005303	DEC	X3
002716 020302	CMP	23, 22 ; AH - (2*AL + 1)
002720 100403	BMI	.+10 ;2*AL .LT. AH-1
002722 042761	BIC	#40000, WYF123-2(1) ; DELETE YOICING

	040000					
	011660					
002730	000440		BR	FERT20		
002732	105067		CLRB	YFLAG	REGINNING OF	VOICED SEGMENT
	006705					
002736	000406		BR	FERT10		•
	112767	ESRTZ:	MOVB	#7, VFLAG	; NON-VOICED	SEGMENT
	000007				7 NOW 7010ED	Sedileiti
····	006675					
002746		FERT9:	TMC	UNVCTR	NO OF HMUOTO	ED SAMPLES
002140	996672	(61)	4 17 '-:	CHYCLIX	JINO OF CHANGE	E SHIFLES
002752	000072		BR	FERT20		
		CCCT40.			I DELOTE 4	45 56 1566 E111
992734		FERT10:	CMP	UNVCTR,#4	;UNVCTR - 4	(3 OR LESS FILL
	<u>006664</u>					
	000004			55554A		
	<u> 100021</u>		EPL	FERT11		
002764	020127		CMP	%1, #16.		
	<u>000020</u>				************************************	
	100416		BMI	FERT11		
002772	<u>006367</u>		ASL	UNVCTR		
	006646	•				
<u> 982776</u>	166701		SUB	UNVCTR, 21		
	006642					
003002	<u> 052761</u>		EIS	#40000.NVF123	-2(1)	
	040000		•		·	
	011660					
	005201		INC	21		
	005201	··	INC	.71		
003014	005367		DEC	UNVOTR		
	006624					
003020	005367		DEC	UNVCTR		
	.006620.					~
			PAGE	014		
	<u> 001366</u>		BNE			
003026		FERT11:	CLR	UNVCTR		
	996612					
		FERT20:	MOY	(6)+, 23		
	012602		MOA	(6)+, %2		
	012601		MOV	(6)+,21		
003040	012600	·	MOV	(6)+,20	CLEAR HALT AN	D CONTINUE
	999992		RTI		; RETURN	
003044	105767	NORMAL:	TSTB	CHKFG1		
	006610					
	•		EOT 🕙			
EOF ?				<u> </u>	·	
	001002		ENE	. +6		
	000167		JMP	NORM10	•	
	000304				•	
003056	005003		CLR	23	; DISPLAY RAW D	ATA WHEN CHKFG1 MA
	016300	NORM1:	MOV	NVF123(3), 20		
ř	011662					
		-		,		

003064 104410	ASH		•
003066 020027	CMP	%0,#-14.	GET V AND WORD ONSET
177762			
003072 042700	BIC	#177774,20	
177774			
003076 052700	815	#60, %0	
000060			
003102 004767	JSR	7,LA30	; WORD ONSET AND VOICING OUT
004726	0.510	1741130	ANOND ONSE! HIND VOICENO OUT
	MAU	0. 6. 8.4	
003106 012704	MOY	#-8. <i>.,</i> %4	
177770			
003112 012700 NORM2:	<u> </u>	#40, %0	; TWO SPACES
000040			•
003116 004767	JSR	7.LA30	
004712			
003122 004767	JSR	7,LA30	·
004706			
003126 016300	MOY	WVF123(3), %0	
011662			
993132 194419	ASH	•	
003134 020004	CMP	20, 24	·
	-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
003136 042700	BIC	#177760,20	
177760		n manda man	
003142 052700	<u> 815 </u>	#060,%0	
. ପର୍ଷ୍ୟତ୍ତ	•		
003146 004767	JSR	7,LA30	OUTPUT F1. F2. F3
004662			
003152 062704	RDD	#4,%4	
000004			
003156 020427	CMP	24,#4	
000004			
003162 001353	BNE	NORM2	·
003164 012700	MOV	#40,20	
	110.4	#467.66	
000040			
003170 004767	JSR	7,LA30	
964649	····		
003174 004767	JSR	7,LA30	,
004634			
003200 004767	JSR	7,LA30	
004630			
	PAGE	015	·
003204 005005	CLR	25	•
003204 000000 003206 005004			
887246 887884 887248 846788	CLR	24	4
	MUV	AGAL(3), 20	
012502		•	
003214 016301	MOV	AHAVH(3),21	
013322			·
<u>003220 104420 NORM3:</u>	ASHC:		
003222 020004	CMF	29.24	SHIFT LEFT 0, THEN 8 BITS IN %4
003224 000300	SWAB	%0	- · · · · · · · · · · · · · · · · · · ·
003226 010002	MOV	20, 22	
003230 006200	ASR	20	
	2 1 ag 1 1 %		

.003232			ASR	20				
003234	996299		858	20				
	042700		BIC	#177770,20				
	177770							
003242	052700		BIS	#60,%0				
	000060							
993246	004767		JSR	7,LA30	: 1ST	3 BITS	OUT OF	BMB
	004562			.,				• • • • • • • • • • • • • • • • • • • •
993252	010200		MOY	%2, %0				
	042700		BIC	#177770,20				
	177770							
007260	052700		815	#60, 20				
	000060	•						
007264	004767		JSR	7.LA30	: 2ND	3 8115	OUT OF	AME
00000	004544		<u> </u>				Selleta Industrial and	
007220	012700		MOV	#40,20				
003810	000040		1121	7 1 52 1 6 5				
002274	004767		JSR	7,LA30				
993617	004534		<u> </u>					
002200	004767		JSR	7,LA30				
003300	004530		<u></u>					
002204	010200		MOV	%2, %0				
	000300		SWAB	70 70				
			INC	25				
	<u>905205</u>		MOV	#8. > 24		···-		
003312	012704		UIO A.	#0. / 64				
000016	<u>000010</u>		CMF	*15. H 4				
003316	020527		C19F.	25,#4.				
	<u> </u>			114.6.14				
	001336		BNE	NORM3				
	<u>005203</u>		INC					
•	005203		INC	% 3				
003330	004767		_15E:	7, CRLF30				
	004612							
003334	<u> 905763</u>			<u> </u>				
	011662							
	<u> 199647</u>		EMI	NORM1	 			
003342	105067	NORM4:	CLRB	SPKOUT				
	<u> 996259</u>	··						
003346	105067		CLRB	SPCHFG				
	006240							
003352	105067		CLRB	CRIOUT				
	006237							
003356	000167		JMP	ENTER1	-			
	175574			<u> </u>				
003362		NORM10:	TSTB	REPTFG				
	006254		· · -	· · · · · · · · ·				
			PAGE	016				
007766	001402		BEQ	+6				
	000167		JMP	ENTER1				
997710	175562	•	411 1	F-14 1 F-15-6				
1 002224	105767		TSTB	SENFG2		-		
,4,5566	105767 .006234		1516	DENIT UZ				
	_677086							

13		PAGE	017	
003540	010367 010452	MOV	%3, LENGTH	LENGTH OF DISCRETE WORD
003536	006203	ASR	23	
20202	175420			JERROR. WORD LENGTH NOT
883532	000167	JMP	ENTER1	FERROR: WORD LENGTH NOT
997740	004767	USR	· / KELEUI	
003524		BPL JSR	. +10. 7, REPEAT	
003522 003524		SUB	%0,%3	
		<i>j</i>		
	010430			and the second of the Political Company of the second of t
003516		MOV	%3,ENDX ;END OF	NORMALIZATION
	012502		or classifier tree.	
003512		SUB	#AGAL, %3	·
003510		BPL	8.	
332004	000006	OTH D	m with real.	
003504		CMPB	#6, %1	AROTHURE DO LOUD INKESTOLK
003502		SWAB	2(3), 21 21	; COMPARE AG TO A IHRESHOLD
<u>003476</u> 003500		DEC MOV	-(3), 21	
003474		DEC	%3	
002424	006130	DEC.	•1.50	
003470		ADD	C1CNTR, X3	
	012502			
003464		MOA	#AGAL,%3	
	010524			
003460	010067	MOA	%0, SEARCH	
	010462			
003454		MOY	%0,STARTX	; BEGINNING OF NORMALIZATION
. = #	012502		· - · · - · · · ·	
003450		SUB	#AGAL, %0	
003446		BPL	-8.	
	000006			<u> </u>
003442		CMPB	#6, %1	COMPARE AG TO A THRESHOLD
003440		SWAB	71	
003436		MOY	(0)+, %1	
997475	012700	NO Y	#AGAL, %0	FIND WHEN DATA BEGINS AND ENDS
003432	010562	YON	#acal Va	. EIND HUEN GOTO DECINE ONG ENGE
	010626			
003424		MOY	TSTORF, TSTRFX	BEGINNING OF FORMANT BUFFER
	010622			
	000006			
003416		MOY	#6.JISTORX	TIME NORMALIZATI
	004550.			
003412	=	JSR	7. DELAY	and the second s
	004446			
003406		JSR	7. TYP0	
	000031	110 T	. Harak Z. (B.W.	
	012700		. +14. .#31,%0	
003400	004606	BNE	. +14.	227 138 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

<u>003544</u>	012700		MOY	#1. 20	···
	000001			• .	
903550	916792	NORM12:	MOV	LENGTH, 22	JIEMPLATE LENGTH # 16,24, OR 32
	010442				
003554	104401		MUL		;TLTHL = 17,25,33 FOR WINDOWS
	020200		CMP	%2, %0	RESULT IN R2 AND R3
	104402	•	DIV		7 10 10 110 KS
	020267		CMP	%2, TLNGTH	; (RO * LENGTH)/TLNGTH
993002	010370		CIN	727 1210111	A CO CENGINA I CHGIN
807566	006302		ASL	22	The same of the sa
	966792		ADD		JOOKING TOO THE OF HINDON IN DO
993319			חטט	310810162	ALOOKING FOR END OF MINDOW IN R2
000504	010346		MO11 .	8011054 84	
993574	012701		MOV	#AVGF1,%1	
	014160				
	005021		CLR		:CLEAR STORAGE FOR AYG WINDOW C
	020127		CMP	%1,#SEARCH	
	014210				management of the control of the con
	001374		BNE	6	
003610	016701	····	MOV	SEARCH, 21	START OF SEARCH
	010374	•			•
		NORM14:	CMP	22,24	:R2 = END OF NINDOW, R1 ≈ BEGINN
003616	100475		BMI	NORM20	;WINDOW AVERAGED
003620	016103	NORM15:	MOY	WVF123(1), %3	GET AVERAGE F1, F2, F3, AND VOICE
	011662		•		
003624	010304		MOV	23, 24	
	042704		BIC	#177760, %4	
	177760				
993632	005704		TST	24 .	
	001404		BEQ	+10	
	969467		ADD	%4, AYGF3	
002020	010322		1100	A+1114013	,
907642	005267		INC	D1V3	
992072			1140	D143	
003646	<u>010336</u>		CHOD	4.5	
	000303		SWAB	23	
	010304		MOY	23,24	The supplication of the contraction of the contract
663625	042704		BIC	#177760,%4	•
	<u> 177760</u>				
	005704		TST	24	•
	001404		BEQ		
983662	060467		ADD	%4,AVGF1	
	919272				
993666	005267		INC	DIV1	
	010306				
983672	000303		SWAB	23	
	032703	•	BIT	#040000,23	CHECK FOR VOICING
	040000				
003700	001402		BEQ	+6	
	005267		INC	VOICED	
V0310E	010270			The state of the s	
997796	104410		RSH	······································	
	020327		CMP	%3,#-4	- DCH 4 DITC
007.10			WIT	<u> </u>	;RSH 4 BITS
1003344	177774		mic	#477766 PF	
<u>'003714</u>	942/93		BIC	#177760, %3	

	177760				
	005703		<u> 151</u>		
003722	001404		BEO	. +10.	
			PAGE	020	
003724	060367 010232		ADD	%3, AVGF2	
007770	005267		INC	D1V2	
003,30	010246		2 14.5	D172	•
	ببينطن ليرضط اطار طهراواني				GET AVERAGE AMPLITUDES
003734	016103		MOV	AGAL (1), 23	your memor and erropes
	012502				
883748		<u>. </u>	MOVE	23,24	
003742	060467		ADD	%4,AVGA1	;AVGA1 = AL
	010220				
003746	000303		SWAB	23	
003750	110304		MOVE	23,24	
003752	060467		ADD	%4,AVGA2	;AVGA2 = AG
	919212				
003756	016103		MOV	AHAVH(1),%3	,
	913322				
003762	110304		MOVB	23,24	
003764	<u> 069467</u>		800	X4,8YG83	:AVGA3 = AVH
	010202				
	0,00303,		SMAB,	23	
	110304		MOVB	X3, X4	
003774			ADD	%4,8YGA4	<u> : AVGA4 = AH</u>
	010174				
<u> 884899</u>			INC	DIVIL	TOTAL NO POINTS IN THE WINDOW
	010202				
<u> </u>			INC	<u> </u>	
	005201		INC	21	
<u>004010</u>		115 F 14 F F	BR	NORM14	RETURN TO EXAMINE NEXT DATA POL
		NORM20:		X1	
004014			DEC	<u> </u>	
004016	005767		TST	DIVTL	;NO. SAMPLE POINTS .GT. ZERO
201222	010164		F-51F		
	001001		BNE	. +4	PERSON MINIMUM NO CONDUCT DED
	<u>000000</u> 010167		<u>HALT</u> MOV	%1,SEARCH	<pre>:ERROR - MINIMUM NO, SAMPLES PER :EEGIN NEXT WINDOW AT THIS B</pre>
004026			MOA	AI) SERROR	BEGIN NEXT WINDOW AT THIS B
004022	<u>010156</u> 005001		CLR	93.4	
		NORM22:		%1 %4	
004034		NUKITAZ.	MOV	AVGF1(1), %5	
204070	014160	,	HQ Y	いんのしてくてンとがら	•
004042	104410		ASH		
	020527		CMP	%5,#3	GET 3 BITS PRECISION INFORMAT
<u>~~~~~</u>	0000003		CHIE	(8×17 T =)	VARI S PAUS UNEGISTON INFORMAT
004050	104402		DIV	,	
	020461		CMP	24,DIV1(1)	AVGF1(X)/(NO. NONZERO SAMPLES)
	014200		*****		FILL STREET SHEET SHIPLES!
004056	005204		INC	24	ROUND AT 83 TO GET 82
	026104		CMP	MAXF1(1),%4	The second second second second second second second

00.40.4	014240				
	100001		BPL	. +4	PRESS. CALLANDER MARKET
	000000		HALT	0.4	#ERROR: ANALYZER: ERRONEOUS BCD.
	006204 010461		ASR MOV	%4 %4,AVGF1(1)	CHECK BOTO DUTTED . BOTO OT DO
994972	014160		140.4	24) HYGF1(1)	; CHECK DATA BUFFER - DATA AT B2
884826	005201		INC	X1	
_	005201		INC	71	
				78-4	
	•		PAGE	021	
004102	020127		CMP	X1,#6	·
	000006				•
	001352		BNE	NORM22	·
		NORM24:		%4	
984112	016105		MOV	AVGF1(1),%5	
004446	014160		0.511		
	104410 020527		ASH CMP	인도 #구·	
004150	0000003 0000003		CMP	25,#3	
004124	104402		DIV		
	020467		CMP	24, DIVTL	JAYGA(X)/(NO. SAMPLES IN A WINDO
997420	010054		OIII	70 77 67 4 7 154	A HISTORY STORES THE HEALTH
004132			INC	24	
	006204		ASR	7.4	
	020427		CMP	74, #771	
	000771			· · · · · · · · · · · · · · · · · · ·	
004142	100404		BMI	+10.	
004144	004767		JSR	7, REPERT	
·	004044	·	<u> </u>		
004150	000167		JMP	ENTER1 ERROR	- AMPLITUDES OUT OF RANGE
	175002				
884154	010461		MOY	24,AVGF1(1)	
004460	914169		TNC	*3.4.	
	005201 005201		INC	%1 %1	
	020127		CMP	%1, #16.	
204704	000020		0111	70.17 W 1 U .	•
004170	001347		BNE	NORM24	•
	026767		CMP :	AVGA2. AVGA3	AVH MUST BE LE AG
	007772				
	007772		<u> </u>	·	
	100003		BFL	. +8.	<i>∴</i>
004202	<u>016767</u>		MOV	AYGA2,AYGA3	
	007762			•	
994949	<u>007762</u> 026767		CMP	aucas auca4	. OU MUST DO LE DO
004210	025757 007754		CHT.	AVGA2, AVGA4	; AH MUST BE LE. AG
	007756				
884216	199993		BFL	. +8.	
	016767		MOY	AVGR2, AVGR4	
	007744			TELESCOPE STEELE	
	007746				
1984226			CMP	AYGA2, AYGA1	;AL MUST BE LT AG
					· · · · · · · · · · · · · · · · · · ·

	007736		•	, to the same again	,
	007732	<u> </u>			
004234	100003		BPL	+8.	•
004236	916767		1107	87682.87681	
	007726			* * *	
	007722				
004244	012703		MOV	#177777,23	; WINDOW MEAN VALUES NOE READY FO
	177777			``	•
004250	016701		MOV	TSTORX, %1	
<u> </u>	007772				
884254	016702		MOY	TSTORI, %2	
·	007770				
004260	106361		ASLB	TMPLAT(1)	; DO BINARY MEASURES FIRST
	014266				
			PAGE	022	
004264	026767		CMP	AVGAS, AVGA4	
	007702		3.11	111911911	
_	007702				
	100406		EMI	NORM26	3FAIL
	026767		CMP	AVGAZ, AVGA1	FRIL
904214	007672		<u> </u>	07902.07904	
•	007664				
204202	100402		EMI	NORM26	. 2.71
			INCB		FAIL
004304	<u>105261</u> 014266		LINUS	TMPLAT(1)	AM1 = AVH GE AH AND AH GE A
004240		NORM26:	ONE	NO NA LINOTE	EMENT X1 BY 6.9.12, FOR
	106361	NORM25	ASLB	TMFLAT(1)	
664775	914266		Halle	(CIPLERICE)	;16, 24, AND 32 BIT CONFIGURATIO
001246	91449 <u>5</u> 926767		CMP	AVGA1, AVGA3	
004710	0207644 _007644		Ctit	nyoni, nyoni	
	007646				
004224	100406		BMI	inopmop	
	<u> 100406</u> 026767	·	CMP	NORM28 AVGA1,AVGA4	
994740			CHE	, " '	
	<u>007634</u> 007640				
001224	100402		BMI	ALC: COM CICO	mati
	105261		INCB	NORM28	FAIL
004770			THUE	TMPLAT(1)	#AM2 = AL .GE. AVH AND AL .GE. A
00.12.12	014266	NODMOG	CON	X2, X1	
	060201 106361	NORM28:	ASLB		
554744				TMFLAT(1)	
60.256	014266		CME	Allena allenae	
664356	<u>026767</u>		CMF	AVG84, AVG83	
	-007620 -007614			•	
901383			CIM T	MODERNO	P. A. V.
	100406		BMI	NORM30	;FAIL
<u> </u>	026767	· ··· · · · · · · · · · · · · · · · ·	CMP	AYGA4. AYGA1	
٠.	007610	•		•	
00.566	.007600		DM 7	NORMEO	CALL
	100402		BMI	NORM30	FAIL
004778	<u> 105261</u>		INCB	TMFLAT(1)	:AM3 = AH GT AVH AND AH GT A
3300 1334	014266		000	NO. 04	· · · · · · · · · · · · · · · · · · ·
22004374	<u> </u>	MUKŅ30:	HDD	22.21	71.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.

894376	106361 014266		ASLB	TMPLAT(1)	,
004402	006367 007560		ASL	AVGA1	;2 * AL
004406	026767		CMP	AYGA4, AYGA1	
	007562	·	<u> </u>	· · · · · · · · · · · · · · · · · · ·	
	007552				
	100406	<u> </u>	BMI	NORM32	; FAIL
004416	026767		CMP	AYGA3, AYGA1	
	997559				
004404	007542		DIM T	MODERNO	roti.
	100402 105261		INCB	NORM32 TMFLAT(1)	;FAIL ;AM4 ≈ AVH .GT. 2*AL AND AH .GT.
064720	014266		TINCE	INFERICES	7884 = 848 . GT. 2*AL RNV AR . GT.
004432		NORM32:	900	X2, X1	
	106361	HUNNIUM.	ASLB	TMPLAT(1)	
001.51	014266		112.00	1111	
004440	026727		CMP	YOICED,#2	;0.5 AT 82
	007532				
	000002	•	•		
:					
	<u> </u>		PAGE	023	·
004446	100402		BMI	. +6	
	105261		INCB	TMPLAT(1)	j
	014266				
604454	010003		MOV	20, 23	
	005002		CLR	7.2	
	104402		DIA		
004462	020227		CMP	%2,#8.	
	000010	٠.			
	005703		757	<u> </u>	
	001002		BNE	+6	
004472	005267		INC	TSTORX	; INCREMENT BYTE
	007550			•	. A Mark and the control of the cont
00.1476	016701		MOV	TSTRFX, 21	;STORE FORMANT DATA
054410	007512	•	1107	. 1:20 1 MT NO 142	,
004502	012702		MOV	#AVGA1,%2	· · · · · · · · · · · · · · · · · · ·
00.002	014166		,	W1117 G11227 1002	•
004506	014204		MOA	-(2), %4	
004510			ASHC		·
004512	020427		CMP	%4,#-5	
	177773		····		
004516	020227		CMP	%2,#AVGF1	
	<u> </u>			<u> </u>	
	.001371		BNE	-12.	
	104420		ASHC		
804526	020427	•	CMP	24, #-1	
964530	177777		MOUL	UE THOLOTAL	
664532	010561		MOV	%5, TMPLAT(1)	;F1=4. 2,F2=3. 2, F3=3. 2
1004576	<u>014266</u> 005201		INC 1	24	
904540		• ;	INC	%1 %1	
2007070	~~~ <u>~~</u>		41712	- flat	

004542			MOV		
	007446		 		ALTERIA PAR TEMPLATE ATARASIS PLAN
004546	005200		INC	% 0	CHECK FOR TEMPLATE STORAGE FULL
	020067		CMP	XØ, TLNGTH	
00,000	007402			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	•
004554	001402		BEQ	. +6	CONTINUE TIME NORM.
	000167	•	JMP	NORM12	7 CONT 2110E 7 21E 100011.
4,4	176766			19.5-19.11.4-44	•
	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				, · · · · · · · · · · · · · · · · · · ·
004562	016767		MOV	LENGTH, TMPLAT+	4 ; STORE LENGTH OF THE WORD
	007430				
	007502	•	•		•
864578	006367		ast	TMFLEIT+4	
	007476				
004574	006367	···	ASL	TMFLAT+4	
	007472				
<u>004600</u>	116767		MOVE	CLASS, TMPLAT+2	
	095014			•.	
	007462				
884686	000367		SWAB	TMPLAT+2	
	007456				
····				·	ED SEGMENT STRUCTURE IN FERT
			PAGE	024	EV BEGIENT STRUCTURE IN PERT
894612	105767	TSTTRN:	PAGE ;	024	EV SEGIENT STRUCTURE IN PERT
894612	105767 004775	TSTTRN:	PAGE ;	·	EV BEGIENT STRUCTURE IN PERT
		TSTTRN:	PAGE ;	024	
004616	004775	TSTTRN:	PAGE ; TSTB	024 TRNFLG	IN OPRMDE
004616 004620	004775 001406 116700 004774	TSTTRN:	PAGE ; TSTB BEQ	024 TRNFLG .+14	
004616 004620	004775 001406 116700	TSTTRN:	PAGE ; TSTB BEQ	024 TRNFLG .+14	
804616 004628 004624	004775 001406 116700 004774 022700 000145	TSTTRN:	PAGE , TSTB BEQ MOVB CMF	024 TRNFLG .+14 CLASS: %0	
804616 004628 004624	004775 001406 116700 004774 022700	TSTTRN:	PAGE ; TSTB BEG MOVB	024 TRNFLG .+14 CLASS: %0	
804616 904628 904624 904639 904632	004775 001406 116700 004774 022700 000145 100001 000001	TSTTRN:	PAGE ; TSTB BEG MOVB CMP BPL HALT	024 TRNFLG .+14 CLASS, %0 #145, %0	IN OPRMDE FREOR: SOFTWARE CLASS NOT IN R
804616 904628 904624 904639 904632	004775 001406 116700 004774 022700 000145 100001 000001	TSTTRN:	PAGE ; TSTB BEG MOVB CMP BPL	024 TRNFLG .+14 CLASS, %0 #145, %0	IN OPEMDE
804616 904628 804624 904639 804632	004775 001406 116700 004774 022700 000145 100001 000000 105067 004772	TSTTRN:	PAGE ; TSTB BEQ MOVB CMP BPL HALT CLRB	024 TRNFLG .+14. CLASS. %0 #145. %0 .+4 TESTFG ; WHEN :	IN OPRMDE FREOR: SOFTWARE CLASS NOT IN R
804616 904628 804624 904639 804632 804634	004775 001406 116700 004774 022700 000145 100001 000000 105067 004772 005000	TSTTRN:	PAGE ; TSTB BEQ MOVB CMP BPL HALT CLRB	024 TRNFLG .+14. CLASS.20 #145.20 .+4 TESTFG ; WHEN :	IN OPRMDE FREOR: SOFTWARE CLASS NOT IN R
804616 904628 804624 904639 804632 804634	004775 001406 116700 004774 022700 000145 100001 105067 004772 005000 016702	TSTTRN:	PAGE ; TSTB BEQ MOVB CMP BPL HALT CLRB	024 TRNFLG .+14. CLASS. %0 #145. %0 .+4 TESTFG ; WHEN :	IN OPRMDE FREOR: SOFTWARE CLASS NOT IN R
804616 804624 804624 804632 804634 804640 804642	004775 001406 116700 004774 022700 000145 100001 105067 004772 005000 016702	TSTTRN:	PAGE TSTB BEQ MOVB CMP BPL HALT CLRB CLR MOY	#145,%0 #145,%0 #445,%0 #445,%0 #4 TESTFG ; WHEN ;	IN OPRMDE FREOR: SOFTWARE CLASS NOT IN R
804616 804624 804624 804632 804634 804640 804642	004775 001406 116700 004774 022700 000145 100001 105067 004772 005000 016702 016701	TSTTRN:	PAGE ; TSTB BEQ MOVB CMP BPL HALT CLRB	024 TRNFLG .+14. CLASS.20 #145.20 .+4 TESTFG ; WHEN :	IN OPRMDE FREOR: SOFTWARE CLASS NOT IN R
804616 804624 804624 804632 804634 804640 604642 804646	004775 001406 116700 004774 022700 009145 100001 105067 004772 005000 016702 016701 007406		PAGE ; TSTB BEG MOVB CMP BPL HALT CLRB CLR MOV	#145,20 #145,20 #145,20 #4 TESTFG ; WHEN ;	IN OPRMDE FREOR SOFTWARE CLASS NOT IN R SET, CLASSIFICATION STORAGE NOT CL
804616 804624 804624 804632 804634 804640 604642 804646	004775 001406 116700 004774 022700 009145 100001 009000 105067 004772 005000 016702 010172 016701 007406 035760		PAGE TSTB BEQ MOVB CMP BPL HALT CLRB CLR MOY	#145,20 #145,20 #145,20 #4 TESTFG ; WHEN ; 20 LIMIT,22 ISTORT,21 TMPSTR(0)	IN OPRMDE FREOR: SOFTWARE CLASS NOT IN R
904616 904624 904639 904632 804634 904649 904642 904652	004775 001406 116700 004774 022700 000145 100001 000000 105007 004772 005000 016702 016701 007406 005760		PAGE ; TSTB BEG MOVB CMP BPL HALT CLRB CLR MOV MOV	#145, %0 #145, %0 #145, %0 #4 TESTFG : WHEN : %0 LIMIT, %2 TSTORT, %1 TMPSTR(0)	IN OPRMDE FREOR SOFTWARE CLASS NOT IN R SET, CLASSIFICATION STORAGE NOT CL
804616 904624 904639 904632 804634 904649 904642 904652 904656	004775 001406 116700 004774 022700 000145 100001 000007 004772 005000 016707 016701 007406 035760 024156 109410		PAGE ; TSTB BEG MOVB CMP BPL HALT CLRB CLR MOV MOV TST	#145, %0 #145, %0 #145, %0 #4 TESTFG : WHEN : #8 LIMIT. %2 TSTORT. %1 TMPSTR(0) TRN1	; IN OPEMDE .ERROR: SOFTWARE: CLASS NOT IN R SET, CLASSIFICATION STORAGE NOT CL .RO.R1.R2 USED
904616 904624 904639 904632 804634 904649 904642 904652 904656 904669	004775 001406 116700 004774 022700 000145 100000 105067 004772 005000 016701 016701 007406 035760 024156 109410		PAGE ; TSTB BEG MOVB CMP BPL HALT CLRB CLR MOV MOV TST BMI BR	TRNFLG .+14. CLASS. %0 #145, %0 .+4 TESTFG : WHEN : %0 LIMIT. %2 ISTORT. %1 IMPSTR(0) TRN1 .+2	; IN OPEMDE .ERROR: SOFTWARE: CLASS NOT IN R SET, CLASSIFICATION STORAGE NOT CL .RO.R1.R2 USED .PRUNING NETWORK JSR 7.PRUNE
904616 904624 904639 904632 804634 904649 904642 904652 904656 904669	004775 001406 116700 004774 022700 000145 100001 000007 004772 005000 016707 016701 007406 035760 024156 109410		PAGE ; TSTB BEG MOVB CMP BPL HALT CLRB CLR MOV MOV TST	#145, %0 #145, %0 #145, %0 #4 TESTFG : WHEN : #8 LIMIT. %2 TSTORT. %1 TMPSTR(0) TRN1	; IN OPEMDE .ERROR: SOFTWARE: CLASS NOT IN R SET, CLASSIFICATION STORAGE NOT CL .RO.R1.R2 USED .PRUNING NETWORK JSR 7.PRUNE
904616 904624 904639 904632 804634 904649 904642 904652 904656 904669	004775 001406 116700 004774 022700 000145 100001 105067 004772 005000 016702 016701 007406 024156 109400 016067		PAGE ; TSTB BEG MOVB CMP BPL HALT CLRB CLR MOV MOV TST BMI BR	TRNFLG .+14. CLASS. %0 #145, %0 .+4 TESTFG : WHEN : %0 LIMIT. %2 ISTORT. %1 IMPSTR(0) TRN1 .+2	; IN OPEMDE .ERROR: SOFTWARE: CLASS NOT IN R SET, CLASSIFICATION STORAGE NOT CL .RO.R1.R2 USED .PRUNING NETWORK JSR 7.PRUNE
804616 904629 904624 904639 904632 804634 904649 904646 904652 904669 904669 904669	004775 001406 116700 004774 022700 000145 100001 105067 004772 005000 016702 0167406 024156 000400 016067 024156		PAGE ; TSTB BEG MOVB CMP BPL HALT CLRB CLR MOV MOV TST BMI BR	TRNFLG .+14. CLASS. %0 #145, %0 .+4 TESTFG : WHEN : %0 LIMIT. %2 ISTORT. %1 IMPSTR(0) TRN1 .+2	; IN OPEMDE .ERROR: SOFTWARE: CLASS NOT IN R SET, CLASSIFICATION STORAGE NOT CL .RO.R1.R2 USED .PRUNING NETWORK JSR 7.PRUNE

004674	110167 004732		MOVB	%1, TESTFG
984799	060100	TON4	ADD	21,20 ; INCREMENT TO NEXT TEMPLATE
004702			CMP	20,22 WHEN REACH LIMIT OF STOR, RESPO
	001362		ENE	TAN STATES AND STATES OF THE S
	004767		JSR	7 CLSIEV FIND NEAREST TEMPLATE IN CT M
	001622			
094712	105767		TSTB.	TRNEIS
	004675			
	001002		EŃE	
884728	004767		JSR	7, OUTPUT DISPLAY SYSTEM RESPONSE
	003642			
004554	000167		JMF	ATN BOARTIVE TRAINING NETWORK
	002220			din durelive lenining helmurk
	096260			
004730	310046	TESTNG:	MCV	20,-(6) CLASSX MUST CONTAIN START OFFSE
	010146		ไปอัง	21(6) THE STORED TEMPLATE AS A WORD
664734	010246		MOV	- X27-(6) RELATIVE TO TMESTR
. 1004736	195767		_1518	A TESTEG
	904670			
	001011	<u> </u>	BNE	<u> </u>
004744	012703		MOW	#OT, MB SET CLASSIFICATION DISTANCE MAT
	915126			
004750	012704		MOV	#CT+600.3 X413.25 25 25 25 25 25 25 25 25 25 25 25 25 2
004254	016256 012705		MOV	#77777, WS
504134	077777		117.19	The state of the s
004760	010523		MON	N5. (3)+
	020304	· · ·	CMP	73,74
	4	·	PHIE	025
	901375		BNE .	
	010005	1510:	MOV	xe, xs
	<u> </u>		DIV	<u> </u>
	320401		CMP	247.21
	010402	<u></u>	MOV	M4, M2 / INDEX TO CT MATRIX
	006302		ASL.	22 GET WORD ADDRESS
	005062		GLR	01(2)
	015126			
985996	012700		MOV	#TMPLAT+6, %0
-	014274			
005012	016703	•••	1107	CLASSX, N3
000000	004604		(B. B. B)	the state of the s
992016	962793		ADD	#TMPSTR+6, %3
. 005000	024164		MODEL	TOTOLO NA
กถวกรร	<u>016704</u> 007224		MOV	TSTR12.24
200200	997424 995995		CLR	25
	012767		MOY	#1/C1CNTR JIST 1 THRU 8 A
52	8999991		110 N	THE PROPERTY OF THE A STREET OF THE STREET
				diamana jinganing ng talijing garana ana ana ana ana ana ana ana ana an

	004566	77.37.	•		
005036			MOV	#81TEST, %1) SEQUENCE OF 200, 100, 40, 20, 48, 4,
	014220				
<u> 005042</u>	000404	TST1:	E:F:		GELIMINATE LOOKING AT F'S ONLY W
895844	006367		ASL	AVGF1	¿PUSH MERGED VOICING BITS ONTOA
	007110				
005050	996967	se di	ROR	AVGF1+2	•
· .	997196				
985854	131119		BITS	(1), (0)	
	001406		BEO	TST2	
005060		1997	BITE	(1),(3)	•
095962	991917		BNE	TST5	JOK VOICING BIT SET - PAS 5
005064	060403		800	24,23	
_ 885866	431443		BITE	(4), (3)	
605070	991496		BEQ		FAIL
_ 005072	000412		BR	TST48	JOK VOICING BIT SET - PASS 5
805074	131113	TST2:	BITB	(4), (3)	
_005076	001004		ENE	TST4	
005100	060403		ADD	24, 23	
. 005402	134443	•	BITE	(1), (3)	
005104	001415		BEQ	TST56	JOK .
_005106	160403		SUB	24, 23	
	.066562	TST4:	ADD	AMMGTS(5), CT(2)	FAIL
	015114		117.7		
	915126				
005116		•	BR	TST6	
	160403	TST48:	SUB	24,23	
	000407		BR	TST6	FELIMINATE LOOKING AT F15 ONLY W
005124		1.4.4.	CMP	%5,#8.	
	000010				•
005130	991994		BNE	TST6	
005132	005267		INC	AVGF1	
	007022				
005136	000401	· · · · · · · · · · · · · · · · · · ·	BR	TST6	
805140	160403	TSTSA:	SUB	24, 23	
			PAGE	926	
	<u> </u>				
005142	095201	TST6:	INC	21	
005144		<u> </u>	INC	71	
005146	005267		INC	CIONTR	
· · · :	004452	·			
005152	020127		CMP	%1,#BITEST+16.	
	014249		· · · · · · · · · · · · · · · · · · ·		
005156	991331		BNE	TST1	
	005203		INC	23	
005162	005200		INC	20	
005164	026767		CMP	C1CNTR, TLNGTH	
	004434				No. of the second secon
	006764	· · · · · · · · · · · · · · · · · · ·			
005172			BNE	TST1-4	
095174			ADD	TSTR14, 20	
	007054				
<u>26005200</u>	066703		ADD	TSTR14, 23	

007050			
<u> 005204 005205</u>	INC	25	
005206 005205	INC INC	#5	
<u>005210 020527</u>	CMP	%5, #10 .	FIND DISTANCE FOR BINARY MEASUR
999912			
<u>005214 001305 </u>	ENE	TST1-10.	
005216 016700	NOA	LENGTH, XØ	R2 CONTAINS INDEX TO CT MATRIX
996774			
805222 006300	ASL	20	
005224 006300	ASL	28	
005226 016701	MOV	CLASSX, X1	
994379			
005232 016105	MOA	TMPSTR+4(1):25	
924162			
	EOT		
EOF ?			
	D.1.C	#476000 VC	CTACCE TOWN OTE TIME LENGTH /O
<u>005236 042705</u> 176000	BIC	#176000,25	STORED TEMPLATE TIME LENGTH (8.
_005242 160005	SUB	X0, X5	
005244 005705	TST	75	
005246 100001	BPL BPL	+4	•
005250 005405	NEG	75 75	
005252 104401	MUL	70.0	
005254 020567	CMP	25, TIMNGT	⇒ (T - T AVG) * WEIGHT FACTOR
919776		7	yer rivay margin morek
005260 005004	CLR	%4	
095262 104402			
005264 020004	CMP	20,24	⇒ (T - T AVG) * (WEIGHT FACTOR/ T
005266 068462	ADD	%4, CT(2)	STORED IN CT MATRIX AS A B2 VAL
015126			
995272 995967	CLR	C2CNTR	
004330			
<u> 995276 919267</u>	MOV	%2.010NTR	NOW CALCULATE FORMANT DISTANCES
004322			
<u>005302 012702</u>	MOY	#177740,22	
177740			•
<u>005306 012700</u>	MOV	#IMPLAT 20	·
814266			
005312 066700	ADD	TSTORT, XO	:END+2 OF IMPLAT FORMANTS
006742			
005316 012701	หถิง	#TMPSTR.21	
024156			
معاط عا بتكليم بما يأت عاملاهيما و	and the second of the second o	and the first of the second of	en eliment i elimente de la companya de la company
	PAGE	027	
005200 00000	2.B.B	ALOCAU MA	
995322 966791	ADD	CLASSX, %1	
004274	- AAA	TOTODT NA	FMC IO OF CTORES TEMPLOTE FORMS
995326 966791 986726	ADD	TSTORT, X1	END+2 OF STORED TEMPLATE FORMAN
005332 012703	MOY	#1,23	
000332 012703	ייטויו	#4165	
005336 014004	TST8: MOV	-(0),%4	
7005340 014105	MOY	-(1),25	
		V 400 V 7 FB 100	

005342	000405	E	R .	+12. ; EL 1M1	NATE LOOKING AT F'S ONLY DURING YO
005344	006367			NVGF1+2	JIF CARRY SET, THEN VOICING SET
	006612				
005350	006067	F	OR A	NVGF1	; CODE FOR SPEED - POP 32 BIT VOI
	006604				
	103041	E	100	ST10	VOICING BIT NOT SET, GO TO 1511
	040204			(2, 24	
	040205			2,25	GET FORMANT 3
	160405			(4, 25	
	100001		FL.	+4	
	005405			: 5	
995379	060567	<u> </u>	IDD :	5, C2CNTR	SUMMATION
	004232				
005374				(g), %4	
	011105	er e		(1), 25	
	194429 929427		ISHC .		OFT FARMANT A
003402	177773	and the second second	MP ;	4,#-5	GET FORMANT 2
005406	040205		iic :	(2, % 5	
	040204			2, %4	
	160405			4, 25	
	100001		PL.	+4	
	005405			(5	
005420	969567			5, C2CNTR	SUMMATION
	004202		,		
005424	011004	<u> </u>	10V ((0), 24	
	011105	אַ	10 V ((1), %5	
	104420		RSHC		•
005432	020427	٠ ر	:MP :	4,#-10.	GET FORMANT 1
	177766	· · · · · · · · · · · · · · · · · · ·			
005436	942794		81C 4	177700,%4	
	177700				
895442	042705		81C 4	177700,25	
005116	177799		F1 (F) (14 815	
	160405	_		(4, %5	
	<u>100001</u> 005405		SPL SEC.	<u>+4</u>	COCOLUTE USLUE
	.060567		-	(5 (5)	; ABSOLUTE VALUE ; SUMMATION OF FORMANTS AT B2:
883444	004146	<u></u>	11/1/	hald backladd its	SUMMITUR OF FORMANIS HI BZ:
005460	005203	TST40 1	INC 2	43	
	020367			23, TLNGTH	
555-52	006470			Terror to be 14 Marie 1999	
005466	001323	F	NE :	rsta	
	016702			10NTR. %2	
	004130	**	,		
005474	866762	E	IDD I	CONTRACT(2)	
	004126				
	915126		<u> </u>		
	2.				
<u> </u>		F	PAGE I	330	
			1 1 × 1		
<u> </u>	<u> </u>				CT MATRIX DIST DONE FOR THIS S
005502				(6)+, %2	
<u>*005504</u>	012601	1	10 V	(6)+,21	

995596	012600		MOV	-(6)+,20
985510	000207		RTS	
			a ja jā jā ja	
				MODIFICATION OF EXISTING OR NEW
				TEMPLATES - FROM ATN NETWORK
	016700 004104	AVGIN:	MOA	CLASSX.20
\$85516	016001		MOV	TMPSTR+2(0); %1 ; CLASS, VOUNVP
	924169			
	105001		CLRB	1 21 - 19 - 19 - 19 - 19 - 19 - 19 - 19 -
005524			SWAR	21
662256	016702		MOV	HOLDT+2, X2
005522	<u> 996749</u> 195992		CLRS	7/2
	000305		SWAB	22
	020102		CMP	21, 22
1.4	001414		BEQ	AYG9.
	929127		CMP	21, #177
	000177			
085546	001401		889	+4
	669699		Hrit. T	ERROR: SOFTWARE: WRONG TEMPLATE
805552	919969		MOV	%0.TMPSTR(0)
	024156			
	000302		รุมคย	- %2 -4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
005560	042769		2810	#177400, TMPSTR+2(0)
V.,	177400			
	024160	·	·	
005566	060260		ROD	22, TMPSTR+2(0)
	024150			
005522	016001	avea	MOV	TMPSTR+4(0) X1 GET AVGONT (0 TO 7)
	924162			
_005576	010103		11(19)	74.7.7.3
	104410		ASH	
	020127		CMP	%1. #-10
	177766			
<u> 995696</u>	042701		810	#177770,21
٠	177779		•	
005612	<u> 919167</u>		MOV	X1.01V1
	006362		<u>.</u> .	
905616	020127		CMP	34. * ?
25.25.45.4.15.5	0999937		ct 1 m	
	<u> </u>		BNE	+10
	005291		INC	6.4 7.4 3.4 b 9.11.5
	010167		MOV	- X4. 6 TV2
005677	- 006350 - 000413		6R	8761
	995281		INC	
	030167		MOV	21. DIV2
<u> </u>	006340		71-7	TRACK A T C
005642	184418		_65H	
	020127		CM8	21, #10
29	093012			

			PAGE	<u> Andrews and the second and the sec</u>
_005650	042769		BIC	#016000.TMPSTR+4(0)
	016000 024162			
005656	060160 024162		ADD	%1;TMPSTR+4(0) /NEW AVGCNT (0 TO 7)
885662	042703 176000	AVG1:	BIC	#176000, %3
	016704 006602		MOV	HQLDT+4, 24
	042704 176909		BIC	#176000, 24
	194491		MUI. CMP	23 01V1
	006274 060403		ADD	24.23
	006303		ASL CLR	23 22 22 22 22 22 22 22 22 22 22 22 22 2
095712	104402		DIV SMP	72.91Y2
	.006262	 	Service of	40.
	<u> </u>		INC ASR	72
805724	042760 001777		SIC	#001777. TMPSTR+4(0) CLEAR TIME STORAGE
	024162	<u> </u>		
005732	024162 060260		ADD	M2, TMPSTR+4(0) INEW AVERAGE TIME LENGTH
005736	862799	AVG2:	<u> 300</u>	4TMPSTR+6, 20
805742	934164 912791		MOV	#HOUDT+6. Mi SEGINNINGS OF BINARY ME
895746	014476 005067		CLR	CRONTR SUCCESSIVE BIT LOC OF T
005 752	003654 012767	AV63:-	MOV	#1.C1CNTR
	9999991 993644			
885769	012702 014220		MOV	#817EST. %2
005764	816794 006262	AVG6:	MOV	TSTR12,24
	. 995293 196393		CLR . . ASLB	23
805774	131211		8118	(2), (1)
606666	001401 405203		BEO INCB	#4 #3
	<u> 196393</u> - 969491		ASLB ADD	243 21
896006	131211		8118	(2), (1)
<u>- 996912</u>	001401 105203		INCS	+ +

006014 106203 006016 060401	ASLB AUD	######################################
006020 131211	SITE	(2),(1)
006022 001491	BEQ	+4
006024 105293	INCB	23
	PRGE	932
886826 888393	SNAS	X3
886838 186383	ASL8	22 JUSE OTHER BYTE FOR STOR
806032 131212	BITE	(2), (0).
006034 001401	880	+4
006036 105203	INCB	
<u>006040 106363 </u>	ASLB	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
886843 868488	ADD	24.20
006044 171510	SITS	(2), (6)
006046 001491	860	
006050 105203	INCE	
006052 106203	ASLB	
886854 868488	<u> </u>	24.20
006056 131219	31TB	(2), (0)
006060 001401	EEQ	44
006062 105203 006064 110305	INCB	100 March 100 Ma
996966 105093	· MOVB · CLR8	235 25 - X3
996979 999393	SWAR	
696972 164491	MUL	of Market By William Control of the Control of the Program of the Control of the
. 006074 000967	* CM#	NE DIEM.
086074 020567 036100	CMP	X5.DIV1
936189		75.0194 73.75
936189 996198 968185	_00 <u>6</u>	07.9g
936199 996199 963395 996192 995324		
936189 996198 968185	ACC CLR	73.25 24
836188 896188 863395 896182 995324 886184 886385	ACC CLR BSL	73.25 24 25 /1.31T PASCISION
836188 896188 863395 896182 995324 886184 886385 886186 184482	800 CLR 85L 01V	73.25 24 25 /1.31T PASCISION
836188 896188 963395 886182 995324 886184 886385 886186 184482 886118 928467	800 CLR 85L 01V	73.25 24 25 /1.31T PASCISION
836198 836198 863395 836182 995324 886184 886385 886186 184482 886118 828467 886866	ADO CLR ASL DIV CMP	23.25 24 25 25 24.01V2 34.01V2 34.01V2 34.01V2 34.01V2 34.01V2
836188 836188 863385 836182 995384 886184 886385 886186 184482 886118 828467 886114 885284	ADD CLR ASL DIV CMP	
836188 896188 963385 886184 995384 886184 896385 886186 184482 986118 828467 886114 885284 886116 886384 886128 166781	ADD CLR ASL DIV CMP INC ASR	#8.25 24 #5
886188 896188 963185 886184 985384 886184 886185 886186 184482 986118 988467 886114 885284 886116 886284 886128 166781	ADD CLR ASL DIV CMP INC ASR	#8.25 24 #5
836188 896188 963385 886184 995384 886184 896385 886186 184482 986118 828467 886114 885284 886116 886384 886128 166781	ADD CLR ASL DIV CMP INC ASR SUB	#3.25 24 25 24 25 24.01V2 24.01V2 24.01V2 24.01V2 24 24 24 25.01V2 26.01V2 27.01V2 28.01V2 28.0
836188 896188 963395 886184 995384 886186 184482 886186 184482 886118 828467 886114 885284 886116 886284 886128 166781 886128 966138 886124 816785 886122	ADD CLR ASL DIV CMP INC ASR SUB	M3.25
836188 896188 963395 886182 995384 886184 886385 886186 184482 986118 928467 886114 885284 886114 885284 886116 886384 886128 166781 886138 986122 886138 986884 886132 183882	ADD CLR ASL DIV CMP INC ASR SUB	
836188 896188 963395 886184 995384 886184 896385 886186 184482 986118 828467 886114 885284 886114 885284 886116 886384 886128 166781 886128 96785 886124 816785 886122 886138 886138 886884 886138 183882 886134 151218	ADD CLR ASL DIV CMP INC ASR SUB MOV ROR SCC BISB	M3.25
826188 806188 963395 806188 995384 886184 896385 886186 184482 986118 828467 886118 805284 886114 805284 886116 805284 886128 166781 886128 46785 886124 816785 886124 816785 886138 886884 886138 986884 886138 986884	ADD CLR ASL DIV CMP INC ASR SUB MOV ROR SCC BISB	X3.25
826188 806188 963395 806188 995384 886184 896385 886186 184482 986118 828467 886118 805284 886114 805284 886116 806384 886128 166781 886128 166781 886124 816785 886124 816785 886138 886884 886138 183882 886138 183882 886134 151218 886136 888481 886136 888481	ADD CLR ASL DIV CMP INC ASR SUB MOV ROR SCC BISB BR BICB	X3.25
836188 896188 963395 806182 995324 806184 806785 806186 184492 986118 928467 806114 805284 806116 806384 806128 166781 806124 916785 806138 986884 806138 183892 806134 151218 806136 999481 806148 141218	### ##################################	X3.25
836188 836188 063305 836182 095324 836184 806785 836186 184482 83618 020467 83614 835284 83614 835284 836128 166781 836128 166781 836128 036122 836138 836804 836132 183882 836134 151218 836134 151218 836148 141218 836148 141218	### ##################################	X3.25
836188 806188 963305 806188 995324 806184 806785 806186 184482 806118 828467 806118 805284 806116 805284 806116 805284 806128 166781 806124 916785 806124 916785 806138 183882 806134 151218 806134 151218 806148 14318 806149 144318 806149 14318 806144 906084 806144 906084	### ##################################	23.25 24 25 24 25 24 25 24 26 27 28 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20
836188 806188 063305 806188 095324 806184 806385 806186 104492 806118 820467 806118 805284 806116 805284 806128 166781 806128 166781 806124 916785 806124 916785 806138 103882 806134 151218 806148 160508 806149 141218 806149 143218 806141 806084 806146 103082 806146 103082 806150 151218	### ##################################	23.25 24 25 24 25 24 25 24 25 24 24 25 24 24 24 24 24 24 25 24 25 27 28 28 28 28 28 28 28 28 28 28 28 28 28
836188 806108 963305 806108 995324 806104 806305 806106 104402 906110 920467 906114 805204 906116 806204 906120 166791 906120 906130 806124 916705 906122 806132 103902 906134 151210 806140 141218 806140 141218 806140 141218 806144 906004 906144 906004 906150 151210 906150 151210	### ##################################	23.25 24 25 24.01V2 24.01V2 24.01V2 24.01V2 24.01V2 24.01V2 24.01V2 25.00 25.0
836188 806108 963305 806108 995324 806104 806305 806106 104402 906110 920467 906016 806204 906116 806204 906120 166701 906120 916705 906124 916705 906122 806134 916705 906132 103902 906134 151210 906144 906004 906144 906004 906144 906004 906146 103002 906150 151210 906150 151210	ACC CLR ASL OIV CMP INC ASR SUB MOV ROR SCC BISB BS BICB SUB ROR BICB BICB BICB BICB BICB BICB	23.25 24 25 24.01V2 25.02
836188 806108 963305 806108 995324 806104 806305 806106 104402 906110 920467 906114 805204 906116 806204 906120 166791 906120 906130 806124 916705 906122 806132 103902 906134 151210 806140 141218 806140 141218 806140 141218 806144 906004 906144 906004 906150 151210 906150 151210	### ##################################	23.25 24 25 24.01V2 24.01V2 24.01V2 24.01V2 24.01V2 24.01V2 24.01V2 25.00 25.0

006324 940204	810	%2, %4	FB SET UP - INPUT
006326 040205	Bic	72,75	F3 SET UP - STORED
006330 104401	MUL		
006332 020567	OMP	%5,01V1	
005642			
006336 060405	ADD	24,25	
806349 005004	CLR	2.4	
006342 006305	ASL	75	
006344 104402	DIV	· · · · · · · · · · · · · · · · · · ·	
006346 020467	OMP	24, DIV2	
995639	 		
006352 005204	INC	24	
006354 006204	RSR	24	: ROUNDED RYERAGE
006356 042710	BIC	#037,(0)	
000037			
006362 060410	ADD	24, (0)	;F3 AVERAGED
•	PAGE	034	
006364 011005	MOV	(0),25	•
006366 011104	MOY	(1), 24	
006370 104420	- ASHC		
006372 020427	CMP	24, #-5	R4 AND R5 W/ F2 RIGHT JUSTIFIED
177773	,		
006376 040204	810	22,24	
006400 040205	BIC	22.25	
006402 104401	MUL	. ,	
006404 020567	CMP	25, DIV1	4
995579			
006410 060405	400	24, 25	•
006412 005004	CLR .	%4	
006414 006305	ASL	25	·
806416 104402	017		
006420 020467	OMP	%4.DIV2	· · · · · · · · · · · · · · · · · · ·
995556			
006424 005204	INC	24	
006426 006204	ASR	24	;ROUNDED AVERAGE
006430 104410	ASH		
006432 020427	CMP	24,#5	
990995			
006436 042710	810	#01740,(0)	
001740			
006442 060410	ADD	%4, (0)	
006444 011005	MOV	(0), %5	
006446 011104	MOV	(1),24	
006450 104420	<u>ASHC</u>		
006452 020427	CMP	%4,#-10.	R4 AND R5 W/ F1 SHIFTED RIGHT
177766			
006456 040304	BIC .	%3, %4	
006460 040305	E10	%3,%5	·
006462 104401	MUL	4.	
<u>006464 020567</u>	CMP	25. DIV1	
995519	.2.2		
006470 060405	800	24.25	
		•	

006634 000305	SUAB	25	
006636 010561	MOY	25.8H8VH(1)	CLASS NO.
013322			
		i	
006642 105767	ISTB	DFLAG	DISTANCE MODE WHEN DELAG SET
015276			
.006646 001532	BEQ	CLS8	in the second of
096650 010046	MOV	%0, -(6)	
006652 010504	MOA	<u> </u>	· · · · · · · · · · · · · · · · · · ·
006654 104401	MUL	•	
006656 020527	CMP	<u> 75.#10.</u>	
999912		•	
<u>006662 062705</u>	<u> ADD</u>	#YOCAB, 25	
021372			
<u> 006666 010502</u>	MOA	<u> </u>	
006670 062702	ADD	#10. 7%2	
999912			
006674 012500 CLS3:	MOY	(5)+,20	·
<u>006676 105700</u>	TSTE	<u> </u>	
006700 001002	BNE	. +6	·
006702 112700	MOVB	<u> #40,20</u>	
999949			
<u> 996796 994767 </u>	JSR	7. TYF0	
001146	,		
006712 099300	SWAB	<u> </u>	
	PAGE	036	
806714 195799	TSTB	20	
006716 001002	ENE	+6	
<u>006720 112700 </u>	MOVE	#40,20	
ଉଉଉପ40			
006724 004767	JSR	7 <u>. TYPO</u>	<u> </u>
001130			
006730 020502	CMP	25, 22	· ·
006732 001360	BNE	CLS3	CLASS
006734 012700	MOV	#40, X0	
ପ୍ରତ୍ୟର			
006740 005002	CLR	7.2	
996742 894767	JSR	7, TYP0	
991112			
006746 005202	INC	72	
<u> 006750 020227 </u>	OMP:	X2,#10.	·
000012	-		
006754 001372	BINE	-10.	J10 BLANKS
006756 006303	ASL	X 3	•
006760 005005	CLR	25	
006762 005002 CLS4:	CLR	22	
006764 104420	ASHC		
006766 020227	CMP	%2,#3	
<u> </u>			
006772 062702	ADD	#60,%2	The state of the s
999969			
			•

006472	005004	•	CLR	24	•
	006105		ASL.	25	
	194492		DIV		
	020467		CMP	%4,01V2	•
000300	005476		GIII	34,0172	
000001			4 5100		
	005204		INC	_%4	
	006204		ASR	24	;ROUNDED AMERAGE
<u>006510</u>	104419		<u> ASH </u>	·	
006512	020427		CMP	24, 410.	
	000012			•	
006516	042710		810	#176000,(0)	
0.000.00	176000		0.2.0	47100000100	
004500			ADD	41.4 7.5.3	ر مان در
	060410			24, (0)	,F1 AVERAGED
996524	<u>026701</u>		CMP	D193,21	
• •	005454				
006530	001273		BNE	AV620	
					THE AVERAGE PROCESS IS DONE IN
004572	000207		RTS	゙ 7 .	TO RETURN AT LAST!
000038	000201		15, 1 -2'		A TO WE LOUGH BY PUBLIC
996534		CLSIFY:	MOV	NOT, 20 ; END	OF CT BUFFER
	006302				
·					
			PAGE	035	
			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	020	
000510	0.00700		OBB	U.S. St. B1.S.	
006540	062700		ADD	#CT,%0	
	015126				
006544	005001		CLR	21	; COUNTER FROM 0 TO 10.
896546	005002	CLS1:	CLR	. X2 : COUN	ITER FROM 0 TO 199 TEMPLATES
886558	012704		MON	#CT, %4	
0,0000	015126				•
COCEEA	012703		MOV		
996224		÷ .	LICIA .	#077777,%3	
	977777				
006560	020324	CLS2:	CMP	23/(4)+	WHEN DONE TOP 10. TEMPLATE INDE
	100405		BMI	. +12.	; AND TOP 10. CLASSES IN AHAYH
006564	010405		MOV	24,25	;WINNER ADDRESS ≈ AGAL
	010261		MOV	_%2,AGAL(1)	: WINNER CLASS = AHAVH
	012502			The Second Control of the North Asset Control	CACHELL STATE THE THE TENT
000870	014403		MOV	2.45 MB	
				-(4),23	
	005724		TST	(4)+	
	005202		INC		
886699	020400		CMP	24,20	
896692	001366		BNE	CLS2	
	012745		MOY	.#077777, -(5)	
	077777			, we trivial 1977	•
000040	916105		MOU	0001743 95	
999919			ŅΟΥ	AGAL(1),%5	,
	012502				
	194491	•	MUL		·
006616	020567	·	CMP	25. ISTORT	
	995436	•			
886622	010561	÷	MOV		: INDEX TO TEMPLATE
	012502	*	· .		
006606	916595		MOY	_IMPSTR+2(5).	ue . o. oce
			14114	$-19F51R+2(5)_{1}$	63. ill835
	924169				
006673			CLRB	25	
- 660075	<u> 105005</u>				

006776		MOV	%2, %0				
<u> 997999</u>		JSR	7. TYPO	· · · · · · · · · · · · · · · · · · ·			
	001054						
_007004	<u> 995295 </u>	INC	<u> </u>	•			
997996	020527	CMP	25) #5				
	988985						
007912		ENE	CLS4	DISTANCE			
807914		MOY	#40,20	7 D 1 D 1 (1) (1)			
	000040		RT SOLITON				
_007020		CLR					
007022		JSR	7,TYPO				
	001032						
007026		INC	%2 ·		• •		
<u> </u>	929227	CMP	%2,#10.				
	999912						
007034	991372	ENE		10 BLONKS			
007036	116400	MOVE	NOPPC(4), 20				
	014672						
007042		ADD	#60,20				
00.0,2	999969	. 12 2	** O. G				
997946		JSR	7, TYPO	- KUIMDED OF	TEMPLATES IN	TUOT OF	či.
001040	004707	0 5 K	77 1 TP O	THURSER OF	IEMERHIES IN	INNI ULI	п
007050	012700	MOUL	840 20			····	
001025		MOV	#40,20				
	999949						
997956		CLR	%2		4		
<u> 997969</u>		JSR	7. TYP0				
	000774						
007064	095292	INC	%2 <u></u>				
007066	020227	CMP	%2,#10.		•		
	000012						
887872	001372	BNE	10.	;10 BLANKS			
			,			•	
		PAGE	037		· · · · · · · · · · · · · · · · · · ·		
		1 114,000	~ ·				
007074	016105	MOV	AGAL(1),%5		······································		
001914		14014	nunctityaa				
003400	912592		W. 18. 7 W. 2. 1 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5				
80/100	016500	MOV	TMPSTR+4(5),20				
	924162						
	104410	ASH					
007106		CMS	20.#-10.		<u> </u>		
	177766						
997112	042700	BIC	#177770,20				
•	177770						
997116	962799	ADD	#60,20				
	999969						
807122	994767	_JSR_	7, TYP0				
	000732						
887494	004767	JSR	7, CRLF				
<u> </u>	000774	V 2/15	- A Set Shall				
007470		моч	1534 20				
	012600	MOY	(6)+,20				
	005201 CLS8:	INC	7.21			:	
	005201	INC	7.1				
987149	020127	CMP	21,#20.				
	000024						

887144	001200		BNE	CLS1	
997146	000207		RTS	7	RETURN WITH TOP 10 WINNERS IN C
					÷ .
897159	105767	ATN.	TSTB	ATNEG	; ADAPTIVE TRAINING NETWORK
	002455				The state of the s
007154	091402		BEQ	. +6	; IF ATNEG SET, THEN ATN ENABLED
007156	000167		JMF	ATN34	
	000632			*	
007162	005000		CLR	20	
007164	105767		TSTB	TRNFLG	
002420	<u>002423</u> 001404		DE O	O. T 610	NAT TOUTHER ACCUME ASSESSED OF
	126767	OTN4 -	BEQ CMPB	ATN2 CLASS, AHAVH	; NOT TRAINING, ASSUME CORRECT RE
991112	002422		LITE	CLESS FIREYE	
	004122				
007200	001013		BNE	ATN4	CORRECT CLASS NOT CHOSEN
-	016067	ATN2:	MOV		: INDEX TO STORED TEMPLATE
	012502	·			
	004734		<u> </u>		
007210	000367		SWAB	TMPLAT+2	
	005054				
097214	116067		MOVE	AHAYH(0), TMPLAT	+2
	913322				
	005046				
997222	<u> </u>		SMAB	TMPLAT+2	CORRECT CLASS 1 D
00000	005042				
	000577		ER	ATN20	
007230		H1N4:	CMP	RNOT, #150	; PENALIZE TEMPLATES WHICH CREATE
007230	005030	HIN4:	CMP	RNOT,#150	; PENHLIZE TEMPLHTES WHICH CREHTE
	005030 000150				; PENHLIZE TEMPLHTES WHICH CREHTE
007236	005030 000150 100453		BM1	ATN48	
007236	005030 000150 100453 105767			ATN48	PENALIZE ANY TEMPLATE IN THIS MO
007236 007240	005030 000150 100453		BM1	ATN48 RPTFLG ;DO NOT	
097236 097240 007244	005030 000150 100453 105767 002372		BMI TSTB	ATN48 RPIFLG ;DO NOT ATN48	
097236 097240 007244	005030 000150 100453 105767 002372 001050		BMI TSTB BNE	ATN48 RPTFLG ;DO NOT	
097236 097240 007244	005030 000150 100453 105767 002372 001050 016001		BMI TSTB BNE MOY	ATN48 RPIFLG ;DO NOT ATN48	
097236 097240 007244	005030 000150 100453 105767 002372 001050 016001		BMI TSTB BNE	ATN48 RPIFLG ;DO NOT ATN48	
007236 007240 007244 007246	005030 000150 100453 105767 002372 001050 016001		BMI TSTB BNE MOV PAGE	ATN48 RFTFLG ;DO NOT ATN48 AGAL(0).21	
097236 097240 097244 087246	905030 909150 199453 195767 902372 901850 916901 912502 916103 924162		BMI TSTB BNE MOY	ATN48 RPTFLG ;DO NOT ATN48 AGAL(0),21	
097236 097240 097244 087246	905030 900150 100453 105767 902372 901050 916901 912502		BMI TSTB BNE MOV PAGE	ATN48 RFTFLG ;DO NOT ATN48 AGAL(0).21	
997236 997249 997244 997246 997252	905030 909150 199453 195767 902372 901850 916901 912502 916103 924162		BMI TSTB BNE MOV PAGE	ATN48 RFTFLG ;DO NOT ATN48 AGAL(0).21	
007236 007240 007244 007246 007252 007256	905030 909150 109453 105767 902372 901050 916001 912502 916103 924162 104410 929327 177766		BMI TSTB BNE MOV PAGE MOV ASH CMP	ATN48 RPTFLG ; DO NOT ATN48 AGAL(0).21 040 TMPSTR+4(1),23	
007236 007240 007244 007246 007252 007256	905030 909150 109453 105767 902372 901050 916001 912502 016103 924162 104410 929327 177766 942703		BMI TSTB BNE MOV PAGE MOV	ATN48 RPTFLG ;DO NOT ATN48 AGAL(0).21 040 TMPSTR+4(1).23	
007236 007240 007244 007246 007252 007256 007260	905030 909150 109453 105767 902372 901050 916001 912502 916103 924162 104410 929327 177766 942703 177770		BMI TSTB BNE MOV PAGE MOV ASH CMP	ATN48 RPTFLG ; DO NOT ATN48 AGAL(0), 21 040 TMPSTR+4(1), 23 23, #-10. #177770, 23	
097236 997240 997244 997246 997252 997259 997264	905030 909150 109453 105767 902372 901050 916001 912502 916103 924162 104410 929327 177766 942793 177770 905303		BMI TSTB BNE MOV PAGE MOV ASH CMP BIC DEC	ATN48 RPTFLG ; DO NOT ATN48 AGAL(0).21 040 TMPSTR+4(1).23 23.#-10. #177770.23	
997236 997249 997244 997246 997252 997259 997269 997264	905030 909150 109453 105767 902372 901050 916001 912502 916103 924162 1077766 942793 177776 905393 905703		BMI TSTB BNE MOV PAGE MOV ASH CMP BIC DEC TST	ATN48 RPTFLG ; DO NOT ATN48 AGAL(0).21 040 TMPSTR+4(1).23 23.#-10. #177770.23 23.	
097236 997240 997244 997246 997252 997256 997269 997272 997274	905030 909150 109453 105767 902372 901050 916091 912502 916103 924162 104410 929327 177766 942703 177779 905303 905703 901924		BMI TSTB BNE MOV PAGE MOV ASH CMP BIC DEC TST BNE	ATN48 RPTFLG ; DO NOT ATN48 AGAL(0).21 040 TMPSTR+4(1).23 23.#-10. #177770.23 23 ATN4A	PENALIZE ANY TEMPLATE IN THIS MO
097236 997240 997244 997246 997252 997256 997269 997272 997274	905030 909150 109453 105767 902372 901050 916001 912502 916103 924162 1077766 942793 177776 942793 977779 995393 901924 916102		BMI TSTB BNE MOV PAGE MOV ASH CMP BIC DEC TST	ATN48 RPTFLG ; DO NOT ATN48 AGAL(0).21 040 TMPSTR+4(1).23 23.#-10. #177770.23 23.	
097236 997249 997246 997246 997252 997256 997269 997272 997274 997276	905030 909150 109453 105767 902372 901050 916001 912502 916103 924162 929327 177776 942703 177779 905303 905703 901924 916102 924160		BMI TSTB BNE MOV PAGE MOV ASH CMP BIC DEC TST BNE MOV	ATN48 RPTFLG ; DO NOT ATN48 AGAL(0).21 040 TMPSTR+4(1).23 23.#-10. #177770.23 23 ATN4A TMPSTR+2(1).22	PENALIZE ANY TEMPLATE IN THIS MO
097236 997249 997246 997246 997256 997269 997276 997272 997274 997276	905030 909150 109453 105767 902372 901050 916001 912502 916103 924162 1077766 942793 177776 942793 977779 995393 901924 916102		BMI TSTB BNE MOV PAGE MOV ASH CMP BIC DEC TST BNE	ATN48 RPTFLG ; DO NOT ATN48 AGAL(0).21 040 TMPSTR+4(1).23 23.#-10. #177770.23 23 ATN4A	PENALIZE ANY TEMPLATE IN THIS MO

996162 193992	. 800	. +6.	
006164 151210	8158	(2),(0)	
096166 000401	5R	+4	
_ 096170 141210	8108	(2), (9)	
			ONE BINARY DECISION IS
006172 005202	INC	7.2	
096174 005202	INC	%2	
<u> 006176 005267</u>	INC	C1CNTR	
903422			,
<u>006202 022702</u>	049	#81TEST+16X2	
914249	1		
	PAGE	033	
	rnua	७ ऽऽ	
006205 001266	BNE	9 7 96	
_006210 005200	LINC		
006212 005201		21	
_ 006214 026767		CICNTR TLNGTH	·
003404		·	
005734		·	
996222 991256		8764	
906224 066700		TSTR14.%0	
006024			
906230 066701		TSTR14, 21	APICK UP NEXT MESSURE
096929			
. 996234 995267		COONTR	
993366			
_ 006240 026727		020NTR.#5	•
993362			
999995		•	
006246 001241		AVG3	
			: ALL BINARY DATA NOW AVE
006250 016700	VOM	CLASSX, X0	
203246			
006254 062700	RDO	#TMPSTR, 20	·
924156			
006260 066700	600	TSTORT, 20	:END+2 OF FORMANT DATA - STORED
006264 012701	MOV 1	#HOLDT, %1	
014476	<u> </u>		· · · · · · · · · · · · · · · · · · ·
006270 066701	ADD	TSTORT, %1	; END+2 OF FORMANT DATA - INPUT T
995764			
996274 912792		#177740, %2	
177749	•		
006300 012703		#177700,23	
177790			::
886384 812767	YOM Y	#HOLDT/DIY3	
014470			
005672			
006312 066767	' ADD	TSTORF, DIV3	··
005740			
905664		<u> </u>	
006320 014005	AVG20: MOV	-(0),25	CODE FOR SPEED
006322 014104	MOV	-(1),24	

007306	126227	CMPB	NOPPC(2),#1	JONLY	ONE TEMPLATE CO	VERING TH
	014672					
	000001					
007314	001414	BEQ	ATN4A	; YES		
	005367	DEC	RNOT			
	004742					
007322		DECB	NOPPC(2)			
001755	014672	DC 00	HOLLOVED			
007326		MOV	LATTET THE CTE		CAS TOMALATE P	
001350		MOA	#1777777 106 \$183	1)	BAD TEMPLATE E	LIMINHTED
	177777					
	024156					
007334		MOY	<u>#77400,TMPSTR+2</u>	?(1)		-
	977499		·			
	024160					
007342	005061	CLR	TMPSTR+4(1)			
	024162					
007746	104410 ATN4A	: BSH				
007350		CMP	23, #10.			
001300	000012	<u> </u>	74 D 7 W 4 D 7			
007354		0.10	#4.5000 THRETTOIL			
007334		BIC	#16000,TMPSTR+4			
	016000		•			
	024162					
007362	060361	ADD	%3,TMPSTR+4(1)			
	024162					
897366	126760 ATN4B	: CMPB	CLASS/AHAYH(0)	•		
	002226					
	013322					
002324	001702	BEQ	ATN2	CHOSEN	L CLASS IN TOP 10	A DE CT MA
	005200	INC	20			in
007400		INC	<u> </u>			
	020027	CMP	%0, #20.			
991495	000024	Vitir	AU) #20.			
007106	001367	BNE	ATN4B			
				# 4 (# 1 Table)		
	<u> 005000 ATN5:</u>			_ : INEUI	CLASS NOT IN TOP	2 10 QE UL
007412	016701	MOV	TSTORT %1		•	
	004642					
007416	016702	MOY	LIMIT, %2			
	005416					
007422	005760 ATN6:	TST	TMFSTR(@)	CHECK	FOR 177777= EMP1	TY BLOCK
	024156					
007426	100461	BM1	RTN12	FOUND	EMPTY BLOCK OF	TEMPLATE 5
887438	060100	800	21,20			
						The second second second second second
		PAGE	041			
		, ,,,,,,,,	C-12			•
007470	020002	CMP	20.22	•		
	001372	BNE	ATN6	h 1.00	e de la compansión de l	
007436		CLR	<u> 21</u>		TY STORAGE AVAIL	
	005003	CLR	%3		NATE LEAST USED 1	
007442	126103 BINS:	CMPR	NOPPC(1), 23	THE CL	ASS W/ THE GREAT	IEST_COVER_
	914672					•
007446	100403	BMI	+8			
007450	010102	YON	21,22		-	
007452	116103	MOYE	NOPPC(1), 23			

	014672				
007456	005201	•	INC	21	
	020127		CMP	21, #144	
	000144				•
007464	001366		BNE	ATNS	FINDCLASS W/ GREATEST NO. OF TE
007466	105362		DECB	NOPPO(2)	FLIMINATE A TEMPLATE FROM THAT
	914672				
007472			DEC	RNOT	
	004566				
	995991		CLR		
007500	012700		MOV	#8. , 20	
	000010				
997594	016103	ATN9:	MOM	TMPSTR+2(1), %3	;TEMPLATE CLASS
	924169			·	
	105003		CLRB	%3	
	000303		SWAB	23	
	929293		CMP	%2, %3	CLASS MATCH ?
	001014		BNE	ATN10	; NO
00/520	016103		MOA	TMPSTR+4(1),23	
007504	<u>024162</u> 104410		ASH		
	929327		CMP	23,#-10	
<u> </u>	_06 <u>0361</u> _177766		_C·IIF	A 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
007572	942793		BIC	#177770,23	
	177770			74111150762	
997536	929399		CMP	%3, %0	FIND GREATEST AVGCNT
	100003		BPL	. +8.	
007542	010167		MOY	%1, AGAL+40.	:TEMPLATE INDEX
	003004				
007546	010300		MOY	23,20	
007550	066701	ATN10:	ADD	TSTORT, 21	
	994594				
007554	020167		CMP	21, LIMIT	
 -	<u>005260</u>				
	991351		BNE .	ATN9	
997562	016700		MOY	AGAL+40.,20	: TEMPLATE RENEWAL
	002764				
<u> 997566</u>			CLR	TMPSTR+4(0)	A CONTRACTOR OF THE CONTRACTOR
007570	024162	OTNAO.	MOV	NO TIMBUA	CET INDEU TO EMBTH BLOCK
_00/3/2	919967	HINIZ	1711 7	20. TINDX1	SET INDEX TO EMPTY BLOCK
007576	004346		MOVB	CLASS, 21	
	992916			<u> </u>	
007602			INCE	NOPPC(1)	:NUMBER OF TEMPLATES PER CLASS
	814672				
007606	010060		MOV	20.IMPSTR(0)	·
	024156				
			PAGE	042	
007245	040400	·····	MOUL	ala munana aka	
88/612	919169		MOY	%1,TMPSTR+2(0)	
002242	024160		CHOS	TMDCTD:0/01	CET OF OCC. PAR CARRESPONDENCE
00/016	000360		SWAB	TMPSTR+2(0)	SET CLASS FOR CORRESPONDENCE
	924169				

010304			RTS	7
010306		REPEET:	<u>. ASCII</u>	<u> ZREPEATZ </u>
010307	105			
010310	120			
010311	105			
010312	101			
010313	124			The strength and the strength of the strength
		OVRFLW:	MAY	#OVER, %2
	010336	OTRI EM.	110.1	TO TEN JOE
010320			MOV	Acusto ac 84
0.10320			UUV	#OVER+28,,%1
	010372			
			PAGE	045
				
010324			CLR	C1CNTR
	001274			Management and the second of t
010330	005067		CLR	C2CNTR
	001272			
010334	000733		BR.	REPEAT+8.
010336		OVER:	. 85011	
010337	116	<u> </u>		All held believed to the least the least to
818348	124			·
010341	105			
			*	
010342	<u> 122</u>		1	
010343	122			
010344	<u> 125</u>			
010345	120			
<u>010346</u>	<u> 124</u>			The state of the s
010347	040			
<u>010350</u>	123			
010351	124			•
010352	117			•
010353	122			
010354	101			
010355	197	··		The state of the s
010356	105			•
010357				
	040			
010360	117			
010361	126			•
010362	105			
010363	122			
818364	106	 		The state of the s
010365	114			
819366	117			
010367	127			
010370	040			
010371			· · ·	
		DELETE:	MOV	TINDX1, 20
	003546		118.1	1 4 17 W 17 (A 2 18 2)
040776			757	TMDCTD+4/0)
010710	<u>005760</u>		13]	TMPSTR+4(0)
040400	024162		5. N. F	and the second s
	001016		BNE	+30. : FLYGUNT GT. 0
010404	012760		MOY	#177777, TMFSTR(0) ; DESTROY TEMPLATE SETUP
<u></u>	<u> 177777</u>	·		

9;	24156				
010412 0:	16001	MOY	TMFSTR+2(0)/%1		
9:	24160				
010416 1	05001	CLRB	7.1		
010420 0	00301	SWAB	21		
010422 0:	12760	MOV	#77400,TMPSTR+2(0)		
9	77400		The state of the s		
9:	24160				
818438 8	05367	DEC	RNOT		
Ø	93639				•
010434 1		DECB	NOPPC(1)		
	14672	0000	11071-0107		
818448 9		MOY	#177777, TINDX2	: OO NOT	AVERASGE IN
	77777	1107	#2111117111000	700 1101	HATKIIDGE 116
	03500				
010446 0		MOY	#177777, TINDX1		
	77777.	116. i	RALLILIZIAN ECA		
. –	03470				
	93719			· · · · · · · · · · · · · · · · ·	
•		DOOD .	046		
		FAGE	194B		
040484 0	40767	MOV	AATTEN TINDUS		
010454 0		MA	#177777, TINDX3		
	77777	•	•		
	<u> 93466</u>		M 20 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
010462 0:		YON	#DEL, %2		
	10560				
010466 0		YON -	#DEL+6.,%1		
	10566				
919472 9:		MOV	(2)+,%0		
010474 0	<u>94767 . </u>	JSR	7, TYP:0		
	77360				
<u>010500 0</u>	99399	SWAB	20		
810502 0	94767	JSR	7, TYF0		
1	77352				
010506 0	20201	CMP	%2, %1		
<u>819519 9</u>	01370 .	BNE	14		
819512 1	95767	TSTB	TRNFLG		
0	91975				
010516 0	01414	BEQ	DELET5		
819529 1		TSTB	RETELG.		
Q .	01112				
010524 0		BNE	DELETS.		
010526 1		TSTB	CLASS		
	01066	15.15			
910532 9		BNE	. +10.		
818534 1		MOVB	#143, CLASS		
	99143	1141b			-
,	01056		•		
010542 0		BR	DELETS		
.010544 1					
	91050 91050	RECO	CLASS.		•
		JSR	7 DECET		
		750	7.RESET		
	10546	145	ENTERO		
010554 0	0016/	JMP	ENTER2	······································	

	170424			
-919569	104	DEL:	<u> 85011</u>	/DELETE/
010561	105			
919562	114			
010563	105			
010564	124			
010565	195			
910566	105767	QUTPUT:	TSTB	DFLAG
	013352			
010572	001401		BEQ	. +4
010574	000207		RTS	7
910576	010046		MOY	20, -(6)
010600	010146		MOY	21, -(6)
010602	010246		MOV	X2, -(6)
010604	005067		CLR	COUNT+2
	013340			•
010610	105767		TSTB	SENFG2
	001020			
010614	001006		BNE	OUTPT2
010616	012700		MOV	#31, %0
	000031			
010622	004767		JSR	7, TYPO
	177232			
			PRGE	047
`	•			
010626	004767		JSR	7. DELAY
	177334			
010632		OUTPT2:	MOY	BHAYH, X1
	002464			· · · · · · · · · · · · · · · · · · ·
919636	105767		TSTB	NUMFLG
	013176			
010642	001413		BEQ	OUTPT3
	012700		MOY	#DIGITS, 20
	024044			
818658	012702		MOV	#DIG1TS+40, , %2
	024114			
818654	006301		ASL	21
	026120		CMP	HASH(1),(0)+
	023510			
010662	001423		BEQ	OUTPT6-2
	020002		CMP	20, 22
	001373		ENE	8.
	006201		ASR	7.1
		OUTPT3:		SENFG1
	000735			·
919676	001416		BEQ	OUTPT6
	012702		MOY	#SPCWRD, %2
	024114			
010704	012703		MOY	#SPCWRD+6,23
	024122			•
010710	006301		ASL	21
	026122		CMP	HASH(1),(2)+
	023510			

040444	000207		RTS	7
		CRLF30:		#105215.20
- 919145	195215	LCLPSE.	F10.19	*103213.70
			PAGE	044
010152	004767		JSR	7, LA30
	177656		V	The specific services
919156			SNAB	20
010160	004767		JSR	7,L830
	177650			
010164_	000207		RTS	7
	010046	DELAY:	MOV	20. -(6)
910179	919146		MOV	21(6)
919172	005000		CLR	70
			EOT	
•	. *			
<u>EOF 2</u>				
010174			MOV	#02000, X1
	<u> 992999</u>			
010200			INC	20
810202		 -	CMP	20.21
010204			BNE	, - 4
919296			MOV	(6)+, 71
010210	012600	,	MOY	(6)+,%0
	.000207.			. 7.
010214		REPEAT:	MOV	#REPEET, %2
	919396			
919229			MOV	#REPEET+6., %1
	010314			
010224			MOA	(2)+,%0
010226			JSR	7. TYP0
040000	177626		om a discount.	41.5
010232		·	<u> รูพุทธ</u>	70
-010234		·	JSR	7, TYP0
878878	<u> 177620</u>			22, 21
010240			CMP	
010242 010244			ENE	14.
919244			MOVB	#7, REPTFG
	000007			
040050	001370	1 5 50 1 511		
		LDELAY:	MOV	20, -(6)
010254			CLR	20
919256		··-·	MOV	@HASHNG,@HASHNG
	013550			
040004	013546		A4.5011	
010264	017777		MOV	@HASHNG,@HASHNG
	013542			
040070	013540			
	005200		INC	70 Vo. #40000
010274	020027		CMP	%0. #40000
040200	<u>040000</u>		FINE .	4.0
	001366		BNE	18.
010302	012600		MOV	(6)+,20

011400 052777	BIS	#071000.0HAPM1 ; DIVIDE INST NOW SET UP
971999		
177674		
011406 012777	MOY	#0400.0HAPM2 ; REPLACE TRAP W/ BR .+2
999499		•
177664		
911414 000002	RT1	
011416 032777 HAP4:	BIT	#4,0HAPM2
999994	_ = 4.1	<u> </u>
177654		
011424 001401	BEQ	HAP8
011426 000000	HALT	; SOFTWARE ERROR - NO SOB EMULATION
011430 032777 Haps:	BIT	#8. / @HAPM2
999919		
177642		
011436 001412	BEQ	HAP16
011440 042777	BIC	#170000, @HAPM1
170000		
177634		,
011446 052777	BIS	#072000,0HAPM1 ; ASH INST NOW SET UP
972999		
177626		
011454 012777	YOM	#0400,@HAPM2 ;REPLACE TRAP W/ BR .+2
000400	1101	WOTOOJOHIH HE JIKE ENGE IKAF MY DK . 'E
177616		
911462 999992	RTI	
911464 032777 HAP16:	BIT	#16. , @HAPM2
999929		
177606		
911472 901412	BEQ	<u> HRP32 </u>
011474 042777	BIC	#170000,0HAPM1
170000		
177600		
911502 952777	BIS	#073000 @HAPM1 : ASHC INST NOE SET UP
073000		
177572		
011510 012777	MOY	#0400,@HAPM2 ;REPLACE TRAP W/ BR .+2
000400	1101	ANTONOCHIE AND AND FINE MY DIV. 12
177562		
911516 000002	RTI.	
911516 939932 911520 932777 HAP32:	BIT	#32. , @HAPM2
	61 1	#SE.) UNITERIZ
999949		
177552	nra	110,00 o a
011526_001412		. HRP64
011530 042777	BIC	#170000, GHAPM1
170000		
177544		•
•	PAGE	053
011536 052777	B15	#074000, @HAFM1
974999		
177536		
011544 012777	YOM	#0400, @HAPM2

010716 001441	BEQ	SPCHAR
010720 020203	CMP	72,73
010722 001373	BNE	-8.
_010724_105767	<u>ISTB</u>	NUMFLG
913119		
010730 001030	BNE	OUTPT9
010732 006201	ASR	21
010734 104401 00	TPT6: MUL	
010736 020127	CMP	%1, #10.
999912		
010742 010102	MOY	71,72
010744 062702	ADD	#10., %2
999912		'
010750 016100	MOY	YOCAB(1), X0
021372		
010754 004767	JSR	7, TYP0
177100.		
010760 000300	SNAB	X0
010762 004767	JSR	7, TYP0
177072	4211	,
010766 005201	INC	21
010770 005201	INC	21
010772 020102	CMP	X1, X2
010774 001365	BNE	-20
010776 012700	МОУ	#40, %0
999949		
011002 004767	JSR ·	7, TYPO
177052		
	PAGE	950
<u></u>		
011006 004767	<u>JSR</u>	7, TYP0
177046		
<u>811012 012602 QU</u>		(6)+, %2
011014 012601	MOA	(6)+, %1
911916 912699	MOY	(6)+, %0
011020 000207	RTS	7
<u> 911922 162792 52</u>	CHAR: SUB	#SPCWRD+2, %2
924116		
<u> </u>	MOV	SPCSYM(2), X0
024122		
011032 004767	JSR	7. TYP0
177022		
011036 000300	SWAB	7.0
011040 004767	JSR	7, TYP0
177014		•
011044 012700	YOM	#11,70
999911		•
011050 004767	JSR	7, TYP0
177004	9	· · · · · · · · · · · · · · · · · · ·
011054 004767	JSR	7) TYPO
177000	V 2.11	to the second
811060 020227	CMP	%2, #2
900002	OTH	FEG. TA.

007622	005267		INC	RNOT	· - ·
007626	004436 004767 010750		JSR	7, KEYWORD	SEE IF INPUT IS A KEYWORD
007632	016767 004306		MOV	TINDX1, TINDX3	
997649	004310 <u>116767</u> 003456		MOVB	AHAYH, TCLASS	; USE FOR VOICED ERROR CORRECTION
007646	001771 105767	 	TSTB	KEYFLG	
	001763 001060		BNE	ATN34	
	105767 001760 001402		TSTB BEQ	ADDFLG .+6	
997662	000167 177342		JMP	ATN4	
	005767 004254		151	TINDX2	
	100405 916767 004246		MOA BW1	ATN30 TINDX2,CLASSX	; DO NOT AVERAGE HOLDT TEMPLATE I ; SETUP FOR AVGIN ROUTINE
007702	991729 994767		JSR ·	7, AVGIN	AVG TEMPLATE IN
007706	175604 016767 004232	ATN30:	MOY	TINDX1, TINDX2	¿PUSH NEW WORD ONTO HOLDT STACK
997714	004232 012700 014266		YOM	#TMPLAT,%0	
	014266 010001 066701		MOV	20,21 TSTORT,21	
	004332 012702		MOV	#HOLDT, %2	
	914479 912922		MOV	(0)+,(2)+	
007736	<u>020001</u> 001375 012704		CMP BNE MOV	<u>%0,%1</u> -4 #TEMP+20,,%4	
	015070 012703		MOV	#TEMP, %3	
997759	015044 012700 013322		MOV	#AHAYH, %0	
997754	012701 012502		MOY	#AGAL,%1	
	012702 012526	-	MOY	#AGAL+20.,%2	
007766	012023 012124 020201		MOV MOV CMP	(0)+,(3)+ (1)+,(4)+ %2,%1	
			PAGE	043	

011064	001411	BEQ	SPCHR6	
911966	005702	ISI		
011070	001403	BEQ	+8.	
911972	105067	CLRB	SENFG2	
	000536			
811976	000403	BR	+8.	
811188		MOVE	#7, SENFG2	
	000007 *			
	000526			
911196		BR	OUTPT9	
	012767 SPCHR6:		#101, CRTKS	
	999191	****	a months with them	
	165362			
911116		MOVB	#16,SENFG2	
<u> </u>	000016	110 4 0	#10/ SEMEOS	
	000510			
		MOUL	1000010 110	
011124		MOA	#020010,%0	•
	020010			refunds absorbed to the second state of the second
011130		JSR	7, TYPO	
	176724			
011134		SWAB	20	
911136		<u>JSR</u>	7. IYPO	
	176716	•		
811142		SNAB	20	
011144	994767	JSR	7, TYPO	
	176710			
011150	012700	MOV	#134,20	
	000134			
011154	004767	JSR	7, TYP0	
	176700		•	
811168	012700	MOY	#10,20	
	000010			
011164		JSR	7, TYPO	
	176670			•
		PAGE	_051	
		1 11 of bo		
011170	004767	JSR	7, TYPO	
011110	176664	0.56	1/11/0	
011174		MOY	#00 VQ	
0.11174		110 4	#02,%0	
044000	000002	ten .	7 7000	. PAN PARISIP AND TRANSPORT
011200		<u>JSR</u>	7, TYPO	; EOM. BACKUP ONE, TRÁNSMIT
044004	176654			
011204		WAIT		<u> </u>
011206		MOA	ICNTR1, %0	!
	012262			
011212	005300	DEC	20	
011214		_ADD	#INPUTO,%0	k
	023424			
011220		CMPB	#40,(0);FIND	LAST BLANK
	000040			
011224		BEQ	SPCHR7	FOUND IT
011226	012700	YON	#4040, %0	; NOT YET
	004040		,	
· · · · · · · · · · · · · · · · · · ·				

911232 994767 176622		JSR	7, TYPO	a na tr.
011236 000300	· · · · · · · · · · · · · · · · · · ·	SWAB	X0	
911249 004767		JSR	7. TYP0	FUT BLANK IN PLACE OF EOM
176614		4.4.		Lift with the settings, and all the system that the system is
011244 000721		BR	SPCHR6	¿LEFT ARROW AND BLANK
011246 012700	SPCHRZ	MOY	#4040,20	ZIGHT THEOLOGICAL THE COME.
004040	51 611101 .	1107	***************************************	
011252 004767		JSR	7, TYP0	
176602		0.5K	DITTO	
		SWAB	8164	
011256 000300			%0 7 7000	
011260_004767		JSR	7. TYEQ	· · · · · · · · · · · · · · · · · · ·
176574				
011264_004767		JSR	Z. RESET	Transport and the second section of the sec
010032				
<u>911279 112767</u>		MOYB	#7.SENFG2	
000007				
000336				
011276 000645			OUTPT9	
811300 000000		0		
011302 000000		0		·
<u> 911394 911667</u>	HAP:	MOY	(6).HAPM1	JGET PC
177772				
<u>911319 916767</u>		MOV	HAPM1, HAPM2	nggangan managan digit digit di Managan managan pangan digit na 1984, pangan pengapah dibit di Managan di Kanagan pangan di Kanagan di
177766	1		e	
177762				
011316 005367		DEC	HAPM2	
177756	· ·	· ·		
011322 005367		DEC	HAPM2	
177752				
011326 032777		BIT	#1,0HAPM2	
000001				
177744				
011334 001412	 	BEQ	HAP2	Company of the second s
911336 942777		BIC	#170000,@HAFM1	
170000				The second secon
177736				
011344 052777		BIS	#070000.0HAPM1	: MUL INST NOW SET UP
070000				
177730				
		PAGE	952	
<u>911352 912777</u>		YOM	#0400,0HAPM2	: REPLACE TRAP W/ BR +2
999499			•	
177720				
011360 000002	•	RTI		
011362 032777		BIT	#2,0HBFM2	
999992				
177710				
011370 001412		BEQ	HAP4	
011372 042777		BIC	#170000,0HAPM1	
170000				
177702				

007772 001374	BNE	-6
007774 005001	CLR	71
007776 012700 ATN32:	MOY	#040,20
000040		
010002 004767	JSR	7. TYPO :
000052		
910006 000300	SMAB	79
010010 004767	JSR	7, TYPO
000044		
010014 105067 ATN34:	CLRB	SPKOUT
001576		
010020 105067	CLRB	SPCHFG
. 001566	· . ·	
010024 105067	CLRB	CRTOUT
001565		
010030 000167	JMP	ENTER1 ; ATN TASK IS COMPLETE
171122		
010034 105767 LA30:	TSTB	TPS: ;******BEGINNING OF INPUT OUTPUT COMMON
167524		
010040 100375	BPL	LA30
919 042 105700	TSTB	20
010044 001002	BNE	+6
010046 112700	MOYB	#40, %0
999949	,	
010052 110067	MOVB	%0, TPB
167510		
010056 000207	_RTS	7
010060 105767 TYPO:	TSJB	CRTPS
166420		•••••
010064 100375	BPL	TYPO
010066 005267	INC	COUNT+2
014056		
010072 105767	ISTB	DISFG
001543		
010076 001410	BEQ	. +18.
010100 122700	CMPB	#54,%0 ; COMMA
000054	2777	
010104 001005	ENE	. +12.
910106 016767	YOM	COUNT+2, COUNT
014036		20 St 20 17 J. 1 18 C. N. N. 18 17 1. 1
014032		
010114 112700	MOVB	#40,20 ; BLANK
999949	110 10	nicolor i Marinin
919129 119967	MOVB	%0,CRTPB
166362	110 40	
010124 000207	RTS	7
919124 999297 919126 912709 CRLF:	MOV	·
105215	111.4	#105215, %0
010132 004767	JSR	7 1400
177722	J.S.K.	7, TYP0
	é u o o	200
010136 000300	<u>SNAB</u>	70
019140 994767	JSR	7. TYP0
177714		

000400		
177526		
011552 000002	RTI	
011554 032777 HAP64:	BIT	#64.,@HAPM2
999109		
177516		
011562 001412	BEQ	HAP128
011564 042777	BIC	#177700,@HAPM1
177799		##171 WWY WITH 114
177510		•
011572 052777	BIS	#06700, @HAPM1
996799	015	4001.003.GUULUT
177502	 -	
911600 912777	MOV	#0400, @HAPM2
999499	1101	#8488) EUULIS
177472		
011696 000002	RTI	
011610 000000 HAP128:		CONTRODE EDDOR - NO CHOIL TOOK OHOTE OF E
011010 000000 H4F128:	nnt I	; SOFTWARE ERROR - NO SUCH TRAP AVAILABLE
011612 000 SPCHFG:	. BYTE	0
011612 000 JRNFLG:	BYTE	8
811614 000 DISFLG:	. BYTE	Ø .
011615 000 CRTOUT:	BYTE	e O
911616 000 SPKOUT:	. BYTE	<u> 9</u>
911617 900 NXTNRD:	BYTE	о 0
011620 000 CLASS:	BYTE	· 8
011620 000 CLMSS:	. BYTE	9 9
011622 000000 CLASSX:	. WORD	<u>0</u>
011624 000000 C1CNTR:	. WORD	
011626 000000 C2CNTR:	. WORD	0 ; *****BEGINNING OF STORAGE FOR ANALYZER 0
011630000 C2FLAG:	BYTE	0
011631 000 ATNFG:	. BYTE	9
011632 000 TESTFG:	. BYTE	ů
011633 000 SENFG1:	. BYTE	9
011633 000 SENFG2:	. BYTE	0
011635 000 KEYFLG:	. BYTE	9
011636 000 RPTFLG:	. BYTE	0
011637 000 TCLASS:	. BYTE	
011637 000 (CLHSS:	BYTE	0 0
911641 900 DISFG:	. BYTE	0 ;UTILIZED FOR DISPLAY OF SYSTEM MODES
011641 000 015FG:	. BYTE	WHEN SELL INPUT WOTD TOO SHORT OR TOO L
011643 000 VFLAG:	. BYTE	0 ; USED IN DR11C2 FERT SECTION
911644 PENG:	EYEN	6 JUSED IN DRITTLE PERT SECTION
011644 000000 UNVCTR:		JUSED, IN DR1102 FERT SECTION - NO. OF UNYDICE
	=	
011646 000170 MINLNG:	NORD	129.
911659 999629 MAXLNG:		400.
011652 000000 TRNSAV:	MUND	0.0
011654 000000 011656 000000 1TEPOT.		
911656 000000 ITERAT:		
911669 000 CHKFG1:		0
011662	EYEN	
·	PAGE	054
		- 5'A'.7

```
011662 000000 NYF123: 0
                                        ;200 WORDS OF INTERRUPT STORAGE
        012502
                        . =. +398.
<u>812502 000000 AGAL</u>
                        Q_
                                          ; 200 WORDS OF INTERRUPT STORAGE
                         . =. +398.
        013322
<u>013322 000000 AYAYH:</u>
                                          :200 WORDS OF INTERRUPT STORAGE
                        Ø
        014142 .
                        . =. +398.
014142 000000 STARTX:
                        Ø
014144 000000 TINDX1:
<u> 914146 999999 TINDX2</u>
014150 000000 TINDX3:
014152 000000 ENDX:
                        Ø
014154 000000 FINDX:
                        Й
Ü
                                 THE FOLLOWING 12 WORDS MUST REMAIN IN ORDER
014160 000000 AVGF1:
                        0
<u>014162 000000 AVGF2:</u>
                        Ø
014164 000000 AVGF3:
                        Й
                                          3
<u>014166 909000 AYGA1:</u>
                                          4
014170 000000 AYGA2:
                         Ø
                                 į
                                          5
<u>014172 000000 AVGA3:</u>
                         n
014174 000000 AVGA4:
<u> 914176 999999 YOICED:</u>
                        C4
014200 000000 DJV1:
                         Ø
                                          9
                                 i
<u> 014202 000000 DIY2:</u>
                         Ø
                                          19
014204 000000 DIV3: .
                        Ø
                                          11
014206 000000 DIVTL
                                          12.
014210 000000 SEARCH: 0
014212 000000 DUMMY:
014214 000000 TSTRFX:
                        0
914216 999999 LENGTH: 0
814220 000200 BITEST: . WORD
                                 200, 100, 40, 20, 10, 4, 2, 1
014222 000100
014224 000040
014226 000020
014230 000010
014232 000004
014234 000002
014236 000001
914240 000111 MAXF1: . WORD
                                 111,71,51
014242 000071
 014244 000051
<u>014246 000000 TSTORX:</u>
 814250 000000 TSTORI: 0
014252 000000 TSTR12: 0
014254 000000 TSTRI4: 0
<u>814256 900000 TSTORF:</u>
 014260 000000 TSTORT: 0
<u>014262 900000 TSTORY:</u>
                                 :THIS AND THEOPRECEDING & WORDS DEFINE THE SAMPL
 014264 000000 RNOT:
                                 FRUNNING COUNT OF NUMBER OF TEMPLATES UTILIZED
                         8
014266 000000 TMPLAT:
                        .0
        014470
                         . =. +128.
                                          :65 WORDS
<u>814478 998999 HOLDT</u>
                         0
        014672
                         . =. +128.
                                          :65 WORDS
814672 900000 NOPPC
                                          ; NUMBERY OF TEMPLATES IN EACH CLASS
```

	015040		. =. +100.	;100 BYTES
015040	999999	LIMIT:	Ø	:SET BY PROGRAM - INDICATES END OF TEMPLATECSTOR
015042	000000	NOT:	0	NUMBER OF TEMPLATES AVAILABLE
			PAGE	055
		-		
815844	999999	TEMP .	Ø	JUSED TO STORE TOP 10 WINNERS-SEE ATN AND KEYWOR
020011	015114		.=. +38	YOSEN TO STOKE TO TO MINIERS SEE THE THE KEINOK
015114		AMWGTS:		8. , 8. , 16. , 10. ; BINARY WEIGHTS - AM 1 2
815116			, MORES	
015120				
015129 015122				
015124			· · · · · · · · · · · · · · · · · · ·	
		0.7		
015126		GT:	.0	AAA HABAA AT MATATU
ni coè c	016256	*******	. =. +598.	
		TIMWGT:		1000 ; WEIGHT FOR LENGTH OF WORD
	999921		WORD	17. (25. (33.)
816262		·- <u>-</u>		
	999941	•		
		M2:	MORD	36.,52,,66
016270				•
916272				
	000006	M3:	NORD	6. , 9. , 12.
016276		······································	· · · · · · · · · · · · · · · · · · ·	
016300		•	•	
	999992	114 :	. WORD	2. , 3. , 4.
916394				
916396	000004			
016310	000004	M5:	. WORD	4. 76. 78.
016312	000006			·
016314	000010			
016316	000104	116:	68. , 100.	. 130.
016320				
016322				
		M7:	30. , 42. ,	54
	000052		20. 7 72. 7	, , , , , , , , , , , , , , , , , , ,
	999966			
070270	999960	•	. EOT	
			. <u> </u>	
EOF ?			-	
CUT !	176506		COTOD-4	7/56/
			CRTP8=17	
	176502		CRTKB=1	
•	176500		CRTKS=17	·
	176504		CRTPS=1	
*	177562		TKB=177	•
	<u> 177566</u>	·	TPB=177	
•	177560		TKS=177	
	177564		TPS=177	564
			J	•
	· · · · · · · · · · · · · · · · · · ·		3	
016332		INROUT:	CMP	ICNTR1. ICNTR2
	995136			
	005136	_		•
016340	001001		BNE	+4

016342	909297	RTS	7 .	
016344	016700	MOY	1CNTR2, %0	•
	005126			
816358	005267	INC	ICNTR2	
	005122			
916354	922767	CMP	#201CNTR2	
	000024			
	005114			
016362	199992	BFL	. +6	
016364		CLR	ICNTR2	
	005106			
		PAGE	056	
		rnoc	61.010	
016370		CMPB	#40,1NFUT0(0)	; BLANK
	000040			
	023424			
016376	001001	BNE		
916499		RTS	7	
816482		CMPB	#12, INPUT0(0)	
	000012			
	923424		•	•
016410		BNE	+4	
016412		RTS	7	
016414		CMPB	#15, INPUT0(0)	
	000015	VIII 6"	1207111 070107	
	023424			
916422		BNE	+4	
916424		RTS		
016424	• • •	CMPB	#54, INPUTA(A)	
010420	000054	<u> </u>		
	023424			•
016434		BEQ.	NEWRD	COMMA - INITIATE NEW WORD
916436		CMPB	#72,1NPUT0(0)	
010430	000072	_5115	WIELLING OF STREET	
	023424			
016444		BEQ	KEYWRD	; COLON - KEYWORD PRECEDES
016446		CMPB	ETX, INPUTO(0)	JOSEON - KETWORD PRECEDES
010440	005370	COFE	E IVY THE O LETTELY	
C d & 15 1	023424	r. Lie		
	001002	BNE	. +6	
016456		JMP.	ENDNG	; END OF TEXT INDICATOR.
	002022	SMB B		
016462		CMPB	#135, INPUTO(0)	; 1 IS DELETE MANUALLY
	000135			
	023424			
016470		BNE	. +10.	
016472		MOVE	#7,DLETFG	<u> </u>
	000007			,
	173121			
016500	000207	RTS	7	
016502	122760	CMPB	#100, INPUTO(0)	@ IS NOW THE LATTOOR RUBOUT KEY
	000100			

023424			
016510 001024	BNE	+42.	
016512 005367	DEC	VOCADD	
004764		,	
016516 105077	CLRB	@YOCADD	,
994769			
016522 012700	MOV	#20010,%0	; BACKSPACE
020010		120020	- British High
016526 004767	JSR	7, TYP0	
171326	V 2-10	.,	
916532 994767	JSR	7, TYP0	
171322		171110	
816536 999399	SWAB	20	
016540 004767	JSR	7. TYPO	
171314	<u> </u>		
	100	7 7000	
016544 004767	<u>JSR</u>	<u> 7, TYPO</u>	
171310		* * * * * * * * * * * * * * * * * * * *	
* 1	PAGE	057·	
016550 000300	SWAB	20	
<u>016552 004767</u>	JSR	7. TYP0	
171302	•	•	
916556 994767	JSR	7, TYPO	
171276	\$		· · · · · · · · · · · · · · · · · · ·
	i		•
916562 926727	CMP	CHRONT, #9.	JOCHARS PER WORD MAXIMUN'M
904712	****		A SALIMAN CERT MANAGE HITHER THANKS
000011			
016570 001001	BNE	. +4	•
816572 999297	RTS	7	
016574 116077	NOVB	•	CADD STORE ASCIL CODE AS(2ND
023424		1000 (8/28/28/28/	COND STORE OSCIA COME OSCIANO
904799			the same of the same and the same of the s
016602 116001	MOVB	INPUT0(0), %1	
023424			
016606 060177	ADD	%1,@HASHNG	; HASH CODE CREATION
995229			
016612 006377	ASL	@HASHNG	
995214			
016616 005267	INC	CHRONT	;NO. CHARACTERS PER WORD
<u>004656</u>			
016622 005267	INC	YOCADD	SETUP FOR NEXT CHAR
994654			•
916626 926727	CMP	YOCADD, #YOCAE	9+1051. ; LIMIT CHECK
004650			
023425			••
016634 001007	BNE	. +16.	•
016636 004767	JSR	7, ERRORØ	: TOO MANY WORDS BEING ENTERED
000154	9.51	1 > EINNONG	A 100 HIRT MORDS DESING ENTERED
016642 004767	JSR	7, RESET	
010042 004767	0.5K	TORESET	•
	MOUD	#/3,CRTPB	· debendentable CODOD 2 analysis same
016646 112767	avom	#1 37 CR (178)	;**********
999963	- <u></u> -	· · · · · · · · · · · · · · · · · · ·	

	157632						•
	000207		RTS	7	 		
016656	116077	NEWRD:	MOAB	INPUTO(0), @YOCA	DD .		
	023424						
	004616				•		
016664	005267		INC	HASHNG			
	005142	6					
816678	995267		INC	HASHNG			
	005136						
816674	162767		SUB	#11. CHRONT	CHRCNT - 9		
	000013						
	004576						
016702	005167		COM	CHRONT	; ABS(CHRCNT~	9)	
044504	004572						
816786	866767		ADD	CHRONT, VOCADD			
	004566			,	,, ,		
046944	004566						
016/14	005067	·	CLR	CHRONT			
046700	004560			_			
	000207	KENNER	RTS	7			
016722		KEYWRD:	DEC	YOCADD			
	.004554						
			noor	000			
			PAGE	060			
016726	995367		DEC	VOCADO			
010120	004550		000	400HDD	· · · · · · · · · · · · · · · · · · ·		
016772	032767		BIT	#1,VOCADD			
010132	999991		<u> </u>	#17 40CHDD	····		
	004542						
916749	001026		BNE	ERRORØ			
	005001		GLR	%1		•	
	017702		MOY	@VOCADD, %2		·	
	004532		.12.	213311337112			
016750	042702		BIC	#100200,%2			
	100200		4				
816754	012703		MOV	#KMDTBL, %3			
	021074						
916769	012704		MOY	#KWDTBL+22.,%4	•		
	021122	•					
016764		KEYND1:	CMP	%2,(3)+			
	001002		BNE	KEYND2			
016770	000171		JMP	@KWDSUB(1)	JADDRESS VECT	ORS FOR	SUBROUTINES
	021122						
016774	005201	KEYND2:	INC	21			
<u>816776</u>	<u>995291</u>	· · · · · · · · · · · · · · · · · · ·	INC	71			
017000	020304		CMP	23,24			
017002	<u> 991370</u>		BNE	KEYND1		· 	
	004767		JSR	7. ERRORØ			
	999996		•	•		-	
017010	095067		CLR	COURFG			
	005020						
	000207	•	RTS	7			
<u>017016</u>	112799	ERRORO:	MOVB	#'E,%0			

9001	35		
017022 0047		JSR	7, JYP0
1710		<u> </u>	
017026 1127		MOVB	#1R, %0
0001:			
917032 0047		JSR	7, TYP0
1710			
017036 0047		JSR	7, RESET
0022			
017042 0047		JSR	7, CRLF
1710			TO VIOLE.
917946 9992		RTS	7 .
017050 1127			#11, 20
8000		11010	H 77. 18.0
017054 0047		JSR	7, TYP0
1710			171110
817969 9959		CLR	REPFLG
9947		02.1	1.001
017064 0007		BR	ERRORØ
02.00, 000,	•	oi.	SUBROUTINES AND ETCETRANNERA
817866 8127	94 NEWVOC:	MOV	#VOCAB+1050 %1
9234			a roome acce, and
017072 0127		MOY	#YOCAB, X0
9213			in the contract the contract that the contract the contra
017076 0050		CLR	(Ø)+
017100 0200		CMP	X0, X1
017102 0013		BNE	4 ; CLEAR VOCABULARY STORAGE
	. •		The second of th
		PAGE	061
			•
017104 0127	91	MOY	#HASH+210.,%1
0240	32		
017110 0127	90	MOV	#HASH, %0
0235		•	
017114 0050	20	CLR	(0)+
817116 0200	91	CMP	20, 21
917120 9913		BNE	· - 4
917122 0050	67	CLR	CHRONT
0043	52		
817126 8127		MOY	#YOCAB, YOCADD
0213			
9043	46	<u> </u>	
017134 0050	67	CLR	YOCFG
9943		٠.	
017140 0127	67	MOY	#YOCAB, TRNADD
		<u> </u>	•
0043	40	.*	
817146 9127	67	MOY	#HASH, HASHNG
9235			
9046	56		
017154 0050		CĻR	COURFG
9946			
017160 0047	67	JSR	7, CRLF
1797	42	····	

### ### ### ### ### ### ### ### ### ##	017164	000207		RTS	7	
000007 000442 017174 004767			pepi èns			•
094642	-20 st. -20 st.		<u> </u>	1101	#I CELLED	······································
03-7474 09-4767					·	
170726 117208 004767	817174			JSR	7. CRLF	
017209 904767 902416 902416 902416 902416 902416 902007 902007 902007 902007 902007 902007 902007 902007 902007 902007 902007 902007 9020000 902000 902000 902000 902000 902000 902000 90200000 9020000000 9020000000000				~		
002116 017204 12767 MOVB #7.DISF6 017207 009007 172427 017212 009067 004616 017216 107211 MOV #VOCAB+1850.21 023424 017222 012700 MOV #VOCAB+1820.X8 023366 017226 005020 CLR (0)+ 017238 020001 CMP X0.X1 017232 001275 BNE -4 017232 001275 SNE -4 017230 00567 CLR MASH+208. 004570 017260 005067 CLR MASH+204. 004560 017250 000207 RTS 7 017250 000207 RTS 7 017250 000207 RTS 7 017250 000207 RTS 9 017250 000207 RTS 9 017250 000207 RTS 7 017250 000207 RTS 9 017250 00020	017200			JSR	7.RESET	
039807 172427 1		002116				
172427 007212 0085087	017204	112767		MOVB	#7.DISFG	•
017212 005067		<u> 999997</u>				<u> </u>
094616 017216 012791		172427				
0.17216 0.12781 0.09	017212	005067		CLR	COURFG	
023424 017222 012366 017225 005029						
### ### ##############################	017216			MOV	#VOCAB+1050 .21	
027366 017226 005820						
017226 009020 CLR (0)+ 017230 020001 CMP 20,21 017234 009567 CLR HASH+208. 004570 004570 CLR HASH+204. 004560 017240 009567 CLR HASH+204. 004556 017240 009067 CLR HASH+206. 017250 000207 RTS 7 017252 012701 REPLC1: MOY #-2,21 ;START OF SUFFER 017250 012701 REPLC2: INC X1 PAGE 062 017262 009201 INC X1 PAGE 062 017264 009501 CMP 6HASHNG, HASH(1) 017276 020001 CMP 20,21 017302 000167 JMP ERROR1 017302 000167 JMP ERROR1 017304 0095267 INC HASHNG 009526 009521 CMP 40,01 017306 0095267 INC HASHNG 009526	017222		_	MOV	#VOCAB+1020.,20	
017230 001375				*		
017232 001275 018						
017234 095067 CLR HASH+208. 017240 095067 CLR HASH+204. 904560 017244 005067 CLR HASH+206. 017250 000207 RTS 7 017252 012701 REPLC1: MOV #-2,X1 ;START OF BUFFER 177776 017256 012700 MOV #202,X0 000312 017262 005201 REPLC2: INC X1 PAGE 062 017264 005201 INC X1 017266 027761 CMP @HASHNG,HASH(1) 023510 017274 001404 BEQ +10. 017276 020001 CMP X0,X1 017270 001370 BNE REPLC2 017302 000167 JMP ERROR1 177542 017306 005267 INC HASHNG 017312 005267 INC HASHNG 017312 005267 INC HASHNG 017316 017761 MOV @HASHNG,HASH(1) 017316 017761 MOV @HASHNG,HASH(1) 017324 011010 BNE REPLC2 017316 017761 MOV @HASHNG,HASH(1) 017316 017761 MOV @HASHNG,HASH(1) 017326 1017061 MOV @HASHNG,HASH(1)			• • •	-	· ·	
004579 017240 005067 CLR HASH+204. 034560 017250 000207 RTS 7 017252 012701 REPLC1: MOV #-2,X1 ;START OF BUFFER 17776 017256 012709 MOV #202, X0 000312 017262 005201 REPLC2: INC X1 PAGE 062 017264 005201 INC X1 017266 027761 CMP GHASHNG, HASH(1) 017267 02001 CMP X0,X1 017270 02001 CMP X1 01				BNE		
017240 005067 CLR HASH+204. 017244 005067 CLR HASH+206. 017250 000207 RTS 7 017252 012701 REPLC1: MOV #-2, X1 ;STRRT OF BUFFER 177776 017256 012700 MOV #202, X8 080312 017262 005201 REPLC2: INC X1 PAGE 062 017264 005201 INC X4 017266 027761 CMP GHASHNG, HASH(1) 084540 023510 023510 017274 001404 BEQ +10. 017276 020001 CMP X0, X1 017280 001370 BNE REPLC2 0177542 017080 001370 BNE REPLC2 0177542 017080 001570 INC HASHNG 017110 005267 INC HASHNG 017312 005267 INC HASHNG 017314 001404 BEQ +10. 017315 005267 INC HASHNG 017316 017761 MOV GHASHNG, HASH(1) 017317 005267 INC HASHNG 017318 005267 INC HASHNG 017319 005267 INC HASHNG 017319 005267 INC HASHNG 017310 005310 GHASHNG, HASH(1) 017324 01761 MOV GHASHNG, HASH(1) 017324 01802 MOV Z1, X3 017324 01802 MOV Z1, X3 017324 018002 MOV Z1, X3 017326 108401 MUL ;PERFORM MULTIPLY INST, OPERANDS	017234			ULK	RHSH+208.	
094569 095067 CLR	049040		=	Col E	11.70.77.11.1.70.70.4	
817244 905067	017240			ULR	HH5H+204.	
004556 017250 000207 RTS 7 617252 012701 RePLC1: MOV #-2,X1 ;START OF BUFFER 177776 617256 012700 MOV #202,X0 000312 017262 005201 REPLC2: INC X1 PAGE 062 617264 005201 INC X1 017266 027761 CMP 0HASHNG,HRSH(1) 094540 023510 017274 001404 BEQ +10. 017276 028001 CMP X0,X1 017276 028001 CMP X0,X1 017302 000167 JMP ERROR1 177542 017306 005267 INC HASHNG 094520 017312 005267 INC HASHNG 094510 023510 017324 019102 MOV WHASHNG,HASH(1) 094510 023510 017324 019102 MOV X1,X3 017324 019102 MOV X1,X3	040044			31.5	112.711 . 7.7.7	
017250 000207 RTS 7 617252 012701 REPLC1: MOV #-2,%1 ;STRRT OF BUFFER 177776 617256 012700 MOV #202.%0 000312 617262 005201 REPLC2: INC %1 PAGE 062 817264 005201 INC %1 017266 027761 CMP 0HASHNG.HASH(1) 004540 023510 617274 001404 BEQ +10. 617276 020001 CMP %0,%1 617270 020001 CMP %0,%1 617300 001370 BNE REPLC2 817302 000167 JMP ERROR1 177542 617306 005267 INC HASHNG 004520 817312 005267 INC HASHNG 004514 817316 017761 MOV QHASHNG.HASH(1) 004510 023510 017324 010103 MOV %1,%3 017326 1004401 MUL ;PERFORM MULTIPLY INST,OPERANDS	817244			CER	HH5H+206.	•
017252 012701 REPLC1: MOY #-2,%1 ;START OF BUFFER 177776 017256 012700 MOY #202,%0 000312 017262 005201 REPLC2: INC %1 PAGE 062 817264 005201 INC %1 017266 027761 CMP GHASHNG,HASH(1) 084540 023510 017276 020001 CMP %0,%1 017276 020001 CMP %0,%1 017300 001370 BNE REPLC2 017300 001370 BNE REPLC2 017300 005267 JMP ERROR1 177542 017306 005267 INC HASHNG 094520 017310 005267 INC HASHNG 094520 017310 007761 MOY GHASHNG,HASH(1) 094510 017324 010103 MOY WHASHNG,HASH(1) 094510 017324 010103 MOY WHASHNG,HASH(1) 017324 010103 MOY %1,%3 017326 104401 MUL ;PERFORM MULTIFLY INST,OPERBNDS	042050			rr		
177776 817256 912799 MOY #292.X0 817262 985201 REPLC2: INC X1 PAGE 862 817264 985201 INC X1 917266 827761 CMP GHASHNG, HASH(1) 984540 617274 991404 BEQ +10. 917276 920901 CMP X0.X1 817309 991370 BNE REPLC2 917302 990167 JMP ERROR1 177542 917306 085267 INC HASHNG 994520 817312 985267 INC HASHNG 994514 817316 917761 MOY GHASHNG, HASH(1) 994510 917324 910193 MOY X1.X3 917326 184401 MUL ;PERFORM MULTIFLY INST, OPERANDS			0.501.04			رم نصر نم ومر و رام م
917256 912700 MOV #202.X0 908512 917262 905201 REPLC2: INC X1 PAGE 962 917264 905201 INC X1 917266 927761 CMP 9HASHNG, HASH(1) 984540 923510 917274 901404 BEQ +10. 917276 92601 CMP X0.X1 917300 901370 BNE REPLC2 917302 906167 JMP ERROR1 177542 917306 905267 INC HASHNG 904520 917312 905267 INC HASHNG 904514 917316 917761 MOV 9HASHNG, HASH(1) 904510 923510 917326 104401 MUL ;PERFORM MULTIPLY INST, OPERANDS	917838		KEPLU1:	1117.7	#-2,21 (SIRK)	ur Burrek
000312 017262 005201 REPLC2: INC	047056			M.7011	Anan wa	
PAGE 962 962 962 962 962 962 962 962 962 965291 965	01/200			13019	#202.360	
### PAGE 062 ### 065201 INC X1 ### 017264 005201 CMP 0HASHNG, HASH(1) ### 023510 ### 017274 001404 BEQ +10. ### 017276 020001 CMP X0, X1 ### 017300 001370 BNE REPLC2 ### 017302 000167 JMP ERROR1 ### 177542 ### 017306 005267 INC HASHNG ### 094520 ### 017312 005267 INC HASHNG ### 094514 ### 017316 017761 MOY 0HASHNG, HASH(1) ### 023510 ### 017324 010103 MOY X1, X3 ### 017326 104401 MUL PERFORM MULTIPLY INST, OPERANDS	047262		protect.	TMC	24	
817264 005201 INC X1 817266 827761 CMP @HASHNG, HASH(1) 984540 023510 617274 001404 BEQ +10 817276 820001 CMP X0, X1 917300 001370 BNE REPLC2 817302 000167 JMP ERROR1 177542 INC HASHNG 904520 INC HASHNG 817312 005267 INC HASHNG 904514 MOY @HASHNG, HASH(1) 904510 023510 917324 919193 MOY X1, X3 917326 104401 MUL ; PERFORM MULTIPLY INST, OPERANDS	2021202	990000	Nara,	1144	ماء والا	
817264 005201 INC X1 817266 827761 CMP @HASHNG, HASH(1) 984540 023510 617274 001404 BEQ +10 817276 820001 CMP X0, X1 917300 001370 BNE REPLC2 817302 000167 JMP ERROR1 177542 INC HASHNG 904520 INC HASHNG 817312 005267 INC HASHNG 904514 MOY @HASHNG, HASH(1) 904510 023510 917324 919193 MOY X1, X3 917326 104401 MUL ; PERFORM MULTIPLY INST, OPERANDS		•		PAGE.	960	
017266 027761 CMP				11146	662	
017266 027761 CMP	012264	005201		INC	21	
984540 923510 917274 901404 BEQ +10. 917276 928001 CMP M0.W1 917300 901370 BNE REPLC2 917302 980167 JMP ERROR1 177542 917306 905267 INC HASHNG 904520 917312 905267 INC HASHNG 904514 917316 917761 MOV @HASHNG, HASH(1) 994510 923510 917326 104401 MUL ; PERFORM MULTIPLY INST, OPERANDS						
923510 917274 991404 BEQ +10. 917276 920901 CMP X0, X1 917300 991370 BNE REPLC2 917302 999167 JMP ERROR1 177542 917306 995267 INC HASHNG 994520 917312 995267 INC HASHNG 904514 917316 917761 MOY QHASHNG, HASH(1) 994510 923510 917326 104401 MUL ; PERFORM MULTIPLY INST, OPERANDS	2			2		
017274 001404 BEQ +10. 017276 020001 CMP	· · · · · · · · · · · · · · · · · · ·					
017276 020001	017274			BEQ	. +10.	
017300 001370 BNE REPLC2 017302 000167 JMP ERROR1 177542 017306 005267 INC HASHNG 004520 017312 005267 INC HASHNG 004514 017316 017761 MOY @HASHNG, HASH(1) 094510 023510 017324 010103 MOY Z1, Z3 017326 104401 MUL ; PERFORM MULTIPLY INST, OPERANDS						
817302 000167	817399	001370			REPLC2	·
017306 005267 INC HASHNG 094520 017312 005267 INC HASHNG 004514 017316 017761 MOV @HASHNG, HASH(1) 094510 023510 017324 010103 MOV %1,%3 017326 104401 MUL ; PERFORM MULTIPLY INST, OPERANDS						
994520 817312 985267 INC HASHNG 904514 817316 917761 MOY @HASHNG, HASH(1) 994510 923510 817324 919193 MOY 21,23 917326 104401 MUL ; PERFORM MULTIPLY INST, OPERANDS		177542				
017312 005267 INC HASHNG 004514 017316 017761 MOV @HASHNG.HASH(1) 094510 023510 017324 010103 MOV %1.%3 017326 104401 MUL ; PERFORM MULTIPLY INST, OPERANDS	017306	005267		INC	HASHNG	,
004514 017316 017761 MOV @HASHNG.HASH(1) 004510 023510 017324 010103 MOV 21.23 017326 104401 MUL ; PERFORM MULTIPLY INST, OPERANDS		004520				
004514 017316 017761 MOV @HASHNG.HASH(1) 004510 023510 017324 010103 MOV 21.23 017326 104401 MUL ; PERFORM MULTIPLY INST, OPERANDS	017312	005267		INC	HASHNG	
994519 923519 917324 919193 MOY 21.23 917326 104401 MUL ; PERFORM MULTIPLY INST, OPERANDS		004514			<u> </u>	
923510 917324 919193 MOY %1.%3 917326 104491 MUL ; PERFORM MULTIPLY INST, OPERANDS	817316	017761	•	MOY	@HASHNG/HASH(1)	
017324 010103 MOY %1.%3 017326 104401 MUL , PERFORM MULTIPLY INST, OPERANDS						
017326 104401 MUL ; PERFORM MULTIPLY INST, OPERANDS				• •	. **	
			· · · · · · · · · · · · · · · · · · ·		71.73	· · · · · · · · · · · · · · · · · · ·
017330 920127 CMP 21. #5. ; RESULT LEFT IN R1 ONLY. LOW OR						
	017330	929127		CMP	.71. #5.	RESULT LEFT IN R1 ONLY. LOW OR

	0000005			
817334		•	MOV	24.84
917336			MOV	*YOCA8+1030 %
	923400		7.5.1	The first contract of the first contract of the first
817342			MOV	#VOCAB+1040., %2
	023412		····	i de la companya della companya della companya de la companya della companya dell
017346	012061	REPLOS:	MOV	(0)+, VOCAB(1)
	<u> 921372</u>			
017352			INC	X1
<u> </u>			<u>inc</u> _	
017356			CMP	72,70
917360			BNE	<u> PEPLOS</u>
917362			CLR	REPALG
017366	004450		TSTB	RPTFLG
017366			1516	KrirEG
017372	<u> 172244</u> 004460		BEQ	REPLC4
917374			MOA	VOCAB+1040, ITERAT
071314	9491911 004012		_1010_4	799-710-71-15-80-7-1-15-80-1
	172254			
017402			B10	#177760, ITERAT
011702	177760		63,0	##11100011CMII
	172246			
817410			INC	
	172242			The second of th
817414			MOV	TRNADD, TRNSAV
	004066			•
	172230			
017422	116767		MOVB	CLASS, TRNSAV+2
	<u> 172172</u>			<u> </u>
	172224			
	006203		<u>ASR</u>	
017432	110367		MOVB	%3, CLASS
	<u> 172162</u>			
	005000	n-n-0=	CLR	X0
<u> </u>		REPLOS:	MUY	TMPSTR+2(0), 21
	024160			
			PAGE	063
			FROE	003
817444	195991		CLRB	71
	000301		SWAB	X1
017450			CMP	23, 21
	001014		BNE	REPLC6
	012760		MOV	#077400,TMPSTR+2(0)
	977499			
	924169		•	
917462	<u>005060</u>		CLR	TMPSTR+4(0)
	024162			
917466	012760		YOM	#177777, TMPSTR(0)
	177777		•	·
	024156			
017474	995367		DEC	RNOT
	<u> 174564</u>		··-	

017500	105363	DECB	NOPPC(3)
043504	<u>014672</u> 066700 REPLC6	2.000	TSTORT, 20
01/304	174550	s: HUU	1510K1, 20
017510	920067	CMP	XO, LIMIT
01/310	175324	CHE	%O, LIMIT
912514	001351	BNE	REPLC5
	105067 '	CLRB	NXTURD
	172075		TO LABOR.
017522	112767	MOVB	#7. TRNFLG
	000007		
	172063		
017530	105067	CLRB	RTNFG ; ENABLE ATN
_	172075		
017534	000167 REPLC4	: JMP	ENDNG
	000744		
017540	004767 REPTRM	N: JSR.	7) RESET
	001556		
617544	112767	HOVE	#7,RPTFLG
	000007		To the state of th
	172064		
017552	004767	JSR	7. CRLF
	170350		
017556	005067	<u> </u>	COURFG
	004252		
<u>Q 017562</u>		JMF.	REPLACE
047500	177400		***
	005001 DISYO		21
	005002 012700	CLR MOY	%2 #31,%0 ;CLEAR_LA_7700A_SCREEN
<u>01/3/2</u>	909931		#31.%0 ;CLEAR LA 7700A SCREEN
047576	994767	JSR	7, TYP0
	170256	V SIC	77 TTEV
017602	004767	JSR	7,DELAY
	170360	V = 1.	I C H B BILL
917696	994767	JSR	7, CRLF
	170314		
917612	004767	JSR	7, CRLF
	170310		
017616	012701	MOV	#YOCAB, %1
	021372		
917622	<u> 912100 DISYO:</u>	1: MOV	(1)+,20
`		PAGE	064
047504	105700	TSTB	
	901002	BNE	.+6
	112700	MOVB	#40.20 ; PRINT NULLS AS BLANKS
	000040	110 110	
017634	994767	JSR	7, TYP0
	170220	<u> </u>	
917640	000300	SNAB	%å
017642	105700	TSTB	X0 ·
917644	001002	BNE	. +6

Q	017646	012700 000040		YOM	#40,20 ; PRINT NULLS AS BLANKS
	017652	994767		JSR	7, TYP0
		170202			
	917656	005202		INC	%2
	017660	-, -,		INC	72
	017662			CMP	%2, \$79.
	52.552	000117		0.111	MEN TIP
	812666	001003		BNE	D15V04
		004767		JSR	7, CRLF
	071010	170232		<u> </u>	1) UNLE
	042224			61.6	81.0s
		<u> </u>	0.15110.4	CLR	<u> </u>
	017676		D15V04:	CMP	#VOCAB+1020.,%1
	21222	923366			
	017702			BNE	D15Y01
	917794	<u> </u>	·	<u>JSR</u>	7. RESET
		001412			
	917719			JSR	7, CRLF
		170212			
	017714	<u> 995967</u>		CLR	COURFG
		004114		•	
	017720	004767		JSR	7, LDELAY
		170326			
	017724	000207		RTS	7
	817726	004767	NEWSPK:	JSR	7, RESET
		001370	,		
	017732	004767		JSR	7, CRLF
		170170			
	017736	005067		CLR	COURFG
	,	004072	•		
		177552		PRB=1775	
		177550		PRS=1775	
		177554	·	PPS=1775	
		177556		PP8=1775	
	017742	000005		RESET	; DISABLE ALL 1/0
		105067		CLRB	RELAG
	071144	999156		CLRD	RCLAU.
	047750			CLR	, ************************************
—		<u> 995994</u> 995995		CLR	<u>74</u>
					%5
	.24.1.1	<u>995767</u>		<u> 151</u>	PRS
•	047766	157570		DW.1	DUNCH .IF DECREE ON DECC TODE
		199463		EMI	PUNCH : IF READER ON, READ TAPE
•	971105	052767		815	#100. PRS
		000100			
	043330	157569	MENE.	MOU	MI MALLET A SIM BU MALLE PRANCES NO ASSESSED
	07///0	016400	WEME:	MOV	BLOCK(4), 20 ; BLOCK STARTING ADDRESS
		024130			
			_ 		
				PAGE	965
	A4555	****			
	817774	916493		MOV	BLOCK+6(4),%3 ;BLOCK 4NDING ADDRESS
	000000	024136			
	959999	195767		TSTB	RFLAG
		990122			

	801401		BEQ	. +4	,
	<u>000002</u> 005267	DE OD :	RTI INC	PRS	
050010	157534	KCHD.	1110	r N.S	
929814	090001		MB1T		
	000774		BR	-6	a ·
***************************************	116791	READO:	MOVB	FRB, 21	
	157526				
020024	105767		TSTB	RFLAG	; DON'T STORE BLANK LEADER
	000076				
	991919		ENE	READ1	
<u>028032</u>			CMP	#177777, %1	
	177777				
	001401		BEQ		
	000002 112767		RT1 MOVB	#7 DELOC	
020042	<u> 442(0)</u>		110 4 B	#7,RFLAG	
	000000				·
929959	0000002		RTI		
	020027	READ1:	CMP	20, #77776	
	077776				
928856	100001		BPL	+4	
920969	060105		ADD	X1, X5	·
020062	110110		MOVE	71. (0)	
020064	005200		INC	20	
	020003		CMP	20,23	
	001401			·, +4	
	<u>999992</u>		RT1		
	005204		INC		
	<u> 995294</u>		INC	24	
020100	020427 000006		CMP	24,#6	· · · · · ·
020104	001331		BNE	NEMB	START NEXT BLOCK
920104			MOV	#ENTER (6)	JOINN NEAT BEOCK
	001024			TER IER IER I	
020112	020567		CMP	25.77776	: COMPARE CHECKSUMS
	957669				
929116	991991		ENE	+4	
	000002		RTI		
	<u> </u>		HALT		: CHECKSUM FAILURE - RE-READ TAPE
	000002		RTI		
929126		RFLAG:	BYTE	0	
	020130	50101611	. EVEN	*******	COAST CAR
050170	<u> 112767</u> 177777	PUNCH	MOYB	#177777, PPB	START TAFE
	157420				
929176		PUNCH1:	MOV .	BLOCK(4),20	START BLOCK ADDRESS
929120	9241 <u>3</u> 9		HOT '	ひにひじれく マノノ るむ	JULIAN DEGEN HUUREDD
829142	016403		YOM	BLOCK+6(4), %3	; END BLOCK ADDRESS
	024136				r merinan memberakan tilan merinan memberakan
020146	020427		CMP	24, #4	
	000004				
			PAGE	066	· · · · · · · · · · · · · · · · · · ·

020152 001002	BNE	. +6	
020154 005303	DEC	23	
<u> 020156 005303</u>	DEC	23	
020160 032767	PUNCH2: BIT	#100200, PPS	
100200			
157366			
929166 991774	BEQ	-6	•
929179 111991	MOVB	(0), 21	
020172 060105	ADD	21, 25	
920174 111067	MOVB	(0), PPB	; PUNCH CHARACTER
157356			
020200 005200	INC:	20	
020202 020003	CMP	%0, %3	
929294 991365	BNE	PUNCH2	
020206 005204	INC	24	
929219 995294	INC	24	
020212 020427	CMP	%4,#6.	•
999996		10 17 00	
020216 001347	BNE	PUNCH1	
929229 932767	BIT	#100200, PPS	
100200		*1002007115	•
157326			
020226 001774	BEQ	6	•
929239 119567	MOVB	25, PPB	STORE CHECKSUM IN 77776
157322		201110	STORE CHECKSON IN 17176
929234 999395		%5 .	
020234 000303		#100200,PPS	•
100200		#100500)[[3	
100200			·
157710		•	· ·
157310			
020244 001774	BEQ	-6 25. PPR	·
020244 001774 020246 110567	BEQ Moyb	-6 %5,PPB	
020244 001774 020246 110567 157304	BEQ MOYB	25, PPB	
928244 991774 928246 119567 157384 928252 984767	BEQ MOYB JSR	· ·	·
928244 991774 928246 119567 157384 928252 984767 167774	BEQ MOYB JSR	%5,PPB 7,LDELAY	
928244 991774 929246 119567 157394 929252 994767 167774 929256 999167	BEQ MOYB JSR JMP	25, PPB	
928244 991774 929246 119567 157394 929252 994767 167774 929256 999167 169679	BEQ MOYB JSR JMP	%5,PPB 7,LDELAY RSTART ;DONE	
928244 991774 929246 119567 157304 929252 994767 167774 929256 999167 169679 929262 994767	BEQ MOYB JSR JMP SENMDE: JSR	%5,PPB 7,LDELAY	
928244 991774 929246 119567 157394 929252 994767 167774 929256 999167 169679 929262 994767	BEQ MOYB JSR JMP SENMDE: JSR	%5,PPB 7,LDELAY RSTART ;DONE 7,RESET	
928244 991774 929246 119567 157304 929252 994767 167774 929256 999167 929262 994767 991934 929266 994767	BEQ MOYB JSR JMP SENMDE: JSR	%5,PPB 7,LDELAY RSTART ;DONE	
928244 991774 929246 119567 157304 929252 994767 167774 929256 999167 929262 994767 929266 994767 167634	BEQ MOYB JSR JMP SENMDE: JSR	%5,PPB 7,LDELAY RSTART ;DONE 7,RESET 7,CRLF	
928244 991774 929246 119567 157304 929252 994767 167774 929256 999167 929262 994767 929266 994767 167634 929272 195767	BEQ MOYB JSR JMP SENMDE: JSR JSR TSTB	%5,PPB 7,LDELAY RSTART ;DONE 7,RESET	
928244 991774 929246 119567 157304 929252 994767 167774 929256 999167 929262 994767 929266 994767 167634 929272 195767 171335	BEQ MOYB JSR JMP SENMDE: JSR JSR TSTB	%5, PPB 7, LDELAY RSTART DONE 7, RESET 7, CRLF SENFG1	
928244 991774 929246 119567 157304 929252 994767 167774 929256 999167 929262 994767 929266 994767 167634 929272 195767 171335	BEQ MOYB JSR JMP SENMDE: JSR JSR TSTB BEQ	%5, PPB 7, LDELAY RSTART DONE 7, RESET 7, CRLF SENFG1 +12	
928244 991774 929246 119567 157304 929252 994767 167774 929256 999167 929262 994767 991934 929266 994767 167634 929272 195767 171335 929276 991495	BEQ MOYB JSR JMP SENMDE: JSR JSR TSTB BEQ CLRB	%5, PPB 7, LDELAY RSTART DONE 7, RESET 7, CRLF SENFG1	
928244 991774 929246 119567 157394 929252 994767 167774 929256 999167 929262 994767 929266 994767 167634 929272 195767 171335 929276 991495 929399 195967	BEQ MOYB JSR JMP SENMDE: JSR JSR TSTB BEQ CLRB	%5,PPB 7,LDELAY RSTART ;DONE 7,RESET 7,CRLF SENFG1 +12 SENFG1	
928244 991774 929246 119567 157394 929252 994767 167774 929256 999167 929262 994767 929266 994767 167634 929272 195767 171335 929399 195967 171327	BEQ MOYB JSR JMP SENMDE: JSR JSR TSTB BEQ CLRB	%5, PPB 7, LDELAY RSTART DONE 7, RESET 7, CRLF SENFG1 +12	
928244 991774 929246 119567 157394 929252 994767 167774 929256 999167 929262 994767 929266 994767 929266 994767 167634 929272 195767 171335 929276 991495 929394 195967 171327	BEQ MOYB JSR JMP SENMDE: JSR JSR TSTB BEQ CLRB CLRB	%5,PPB 7,LDELAY RSTART ;DONE 7,RESET 7,CRLF SENFG1 +12 SENFG1 SENFG1 SENFG1	
928244 991774 929246 119567 157394 929252 994767 167774 929256 999167 929262 994767 929266 994767 167634 929272 195767 171335 929276 991495 929309 195967 171327 929304 195967 171324	BEQ MOYB JSR JMP SENMOE: JSR JSR TSTB BEQ CLRB CLRB CLRB	%5,PPB 7,LDELAY RSTART ;DONE 7,RESET 7,CRLF SENFG1 +12. SENFG1 SENFG2 +8.	
928244 991774 929246 119567 157394 929252 994767 167774 929256 999167 929262 994767 929266 994767 167634 929272 195767 171335 929276 991495 929309 195967 171327 929304 195967 171324 929310 999403	BEQ MOYB JSR JMP SENMOE: JSR JSR TSTB BEQ CLRB CLRB CLRB	%5,PPB 7,LDELAY RSTART ;DONE 7,RESET 7,CRLF SENFG1 +12 SENFG1 SENFG1 SENFG1	
928244 991774 929246 119567 157394 929252 994767 167774 929256 999167 929262 994767 929266 994767 167634 929272 195767 171335 929276 991495 929309 195967 171327 929304 195967 171324 929310 999403 929312 112767	BEQ MOYB JSR JMP SENMOE: JSR JSR TSTB BEQ CLRB CLRB CLRB	%5,PPB 7,LDELAY RSTART ;DONE 7,RESET 7,CRLF SENFG1 +12. SENFG1 SENFG2 +8.	
928244 991774 929246 119567 157394 929252 994767 167774 929256 999167 929262 994767 929266 994767 929266 994767 167634 929272 195767 171335 929276 991495 929304 195967 171324 929310 999403 929312 112767 999997 171313	BEQ MOYB JSR JMP SENMOE: JSR JSR TSTB BEQ CLRB CLRB CLRB	%5,PPB 7,LDELAY RSTART ;DONE 7,RESET 7,CRLF SENFG1 +12. SENFG1 SENFG2 +8. \$7,SENFG1	
928244 991774 929246 119567 157394 929252 994767 167774 929256 999167 929262 994767 929266 994767 167634 929272 195767 171335 929276 991495 929309 195967 171327 929304 195967 171324 929310 999403 929312 112767	BEQ MOYB JSR JMP SENMOE: JSR JSR TSTB BEQ CLRB CLRB BR MOYB	%5,PPB 7,LDELAY RSTART ;DONE 7,RESET 7,CRLF SENFG1 +12. SENFG1 SENFG2 +8.	

	000207 004767	NUMMDE :	RTS JSR	7 7, RESET
	999779			
	 	,	PAGE	067
020332	004767 167570		JSR	7, CRLF
020336	105767 003476	-	TSTB	NUMFLG
020342	001403		BEQ	. +8.
020344	105067		CLRB	NUMFLG
	993479			·
	000403		BR	.+8. #7.NUMFLG
656725	112767 000007		MOAB	#Y, MUMP LG
	003460			
	005067		CLR	COUREG
. 1	003450			·
	000207		RTS	7
828366	004767 <u>000730</u>	TRNMDE:	JSR	7, RESET
929372	<u> 112767</u>		MOVB"	#7, TRNFLG
020312	000007		11010	#17 115H CG
	171213			
020400	195967		CLRB	NXTHRD
	171213			
929494	004767		JSR	7, CRLF
•	167516			
<u> 929419</u>	<u> 995967</u>		CLR	COURFG
	003420			
928414	<u> 105067</u>		CLRB	CLASS
000100	171200		676	7
	999297	DICHDE.	<u>RIS</u>	
929422	000674	DISMDE:	JSR	7, RESET
020426	004767		JSR	7, CRLF
929420	167474		0.510	ry oner
828432	995967		CLR	COURFG
	993376			
828436	105767		TSTB	DFLAG
	003502			· ·
	001403		BEQ	. +8.
828444	105067		CLRB	DFLAG
	003474			
	999493	 :	BR	
020452	112767		MOVB	#7, DFLAG
	<u> </u>			
020460	003464 000207		RTS	7
020400	000201 004767	OPRMDE :	JSR	7, RESET
020402	000634		カウド	() () () () () () () () () ()
020466	195967		CLRB	TRNFLG
	171121			···

020472 004767	JSR	7, CRLF	
167430			
020476 005067	CLR	COURFG	
993332			
020502 000207	RTS	7	
020504 105767	ENDNG: TSTB	SENFG1	
171123			
020510 001403	BEQ	+8	
	PAGE	070	· · · · · · · · · · · · · · · · · · ·
020512 005067	CLR	COURFG	•
993316			
020516 000207	RTS :	7	
020520 004767	JSR	7, RESET	
000576	0 5K	·	
020524 005767	TST	REPFLG	
093306	151	KEITEG	
020530 001402	BEQ	. +6	
020538 001402	JMP	REPLC1	• •
176514		Kar but	
<u> </u>	JMP	DISYOC	•
		D1540C	
177024	OTHER TOP		
020542 004767	HINDE: JSK	7. RESET	
000554		,	•
020546 004767.	JŞR	7, CRLF	•
167354	1.1		
020552 005067	CLR	COURFG	
993256	•		•
<u> </u>	TSTB	ATNEG	
171047	:	•	
<u> </u>	BEQ	+8	
020564 105067	CLRB	ATNEG	
171041	·		
020570 000403	BR	. +8.	
020572 112767	MOVB	#7,ATNFG	
0,00007			
171031			
020600 000207	RTS:	7	•
020602 105767	KEYWORD: TSTB _	ADDFLG	
171932			
020606 001410	BEQ	KEY1	·
020610 016767	YOM	TINDX1, TINDX2	
173330	, · • ·		
173330			
020616 012767	MOY	#177777, T1NDX1	•
177777			and the state of t
173320		· ·	
020624 105067	CLRB	ADDFLG	
171010	CERD	noo: ca	
020630 016701	KEY1: MOV	AHAYH, X1	MUST NO A DT ON SECCE FIRST
		10 (01) AT	; MUST DO A RT ON SSSSSS FIRST
172466		95.4	
020634 006301	ASL'	%1	
020 636 026167	CMP	HASH(1),SSSSSS	

	023510			
	003306	•		
020644	<u> </u>		BEQ	KEY3
	926167		CMP	
020545			<u> </u>	HASH(1), EEEEEE
	923519			
000000	<u> </u>		Civie	1.001.00
	991915		BNE	KEY2
828626	105767		ISTB	TRNFLG
	170731		F-1-1	
	001072		BNE	KEY6
	012701		MOA	#177777, %1
	177777			
020670	010167		MOV	21, TINDX1
	<u> 173250</u>	···	 	
				a m .
			PAGE	
829674	010167		MOY	21, TINQX2
	173246			
050500	010167		MOV	<u> </u>
	173244			
920794	105067		CLRB	KEYELG
	170725			·
0 020710			RTS	7 ; NOT SSSSSS OR EFFEEE KEYWORDS BY YOCAL
020712	105767	KEY3:	TSTB	TRNFLG
	<u> 170675</u>			
	001054		BNE	KEY6
820729	<u> 105767</u>		ISTE	KEYFLG
•	170711			•
	<u>991994</u>		_ENE	KEY4
020726	112767		MOVB	#7, KEYFLG
	<u> 999997</u>			
	170701			
	<u> 999297</u>		<u> RIS</u>	
020736	016767	KEY4:	MOA	TINDX3, TINDX2 ; OK HAVE CORRECT ID
	_173296			A CONTRACTOR OF
	173202			
020744	012767		MOW	#177777, T1NDX1
•	177777			•
	173172			
020752	000367		SWAB	HOLDT+2
	173514			
020756	116767		MOVB	TCLASS, HOLDT+2 ; CORRECTED CLASS
	170655			,
	173506			
020764	000367	•	SWAB	HOLDT+2
	173502			
020770	116767		8701	TCLASS, CLASS
	170643			•
	170622			
020776	012704		MOY	#TEMP+20.,24
·- -	015070		•	
821882	012703		MOY	#TEMP, %3
	015044		rrae I	U 1 Mart 11 2 18 W
	- W-1-0-0-7-7			

004606	040700		MACILI	BOUGHIL NO
021000	012700	•	MOV	#AHAVH, 20
****	<u> 913322</u>			
021012	012701		MOV	#AGAL, %1
	012502			
021016	012702		MOV	#AGAL+20.,%2
	912526			· .
	012320		MOA	(3)+,(0)+
021024			MOY	(4)+,(1)+
021026	020201		CMP	%2, %1
	001374	·	BNE	6
021032	005000		CLR	20 : TOP TEN WINNERS RESTORED
021034	<u> 112767</u>		MOVE	#7,ADDFLG
	000007			
	170576			
021042	105067		CLRB	KEYFLG
•	170567			
021046	000207		RTS	7
	195767	KEY6:	TSTB	RPTFLG
	170562			· · · · · · · · · · · · · · · · · · ·
			PAGE	072
			11100	
021054	001401	····	BEQ	. +4
	000207		RTS	7
	105767	***************************************	TSTB	NOPPC+50.
087000	173670		1316	NOTEGTUD.
024064	001001		BNE	, +4
	001001		RTS	7
	13 13 13 7		K 1 5	
	000167		JMP	DELETE
				DELETE
921979	000167 167276	LUBTR.	JMP	DELETE CONSTANTS AND OTHER PASRAMETERS AND STORAGE
021070 021074	999167 167276 126	KNDTBL:	JMP	DELETE
921979 921974 921975	999167 167276 126 193	KWDTBL:	JMP	DELETE CONSTANTS AND OTHER PASRAMETERS AND STORAGE
921979 921974 921975 921976	000167 167276 126 103 122	KNDTBL:	JMP	DELETE CONSTANTS AND OTHER PASRAMETERS AND STORAGE
921979 921974 921975 921976 921977	000167 167276 126 103 122 120	KWDTBL:	JMP	DELETE CONSTANTS AND OTHER PASRAMETERS AND STORAGE
921979 921974 921975 921976 921977 921189	000167 167276 126 103 122 120 122	KWDTBL:	JMP	DELETE CONSTANTS AND OTHER PASRAMETERS AND STORAGE
921979 921974 921975 921976 921977 921189 921191	999167 167276 126 193 122 129 122 124	KWDTBL:	JMP	DELETE CONSTANTS AND OTHER PASRAMETERS AND STORAGE
921979 921974 921975 921976 921977 921189 921191	000167 167276 126 103 122 120 122 124 104	KWDTBL:	JMP	DELETE CONSTANTS AND OTHER PASRAMETERS AND STORAGE
921979 921974 921975 921976 921977 921189 921191 921192	909167 167276 126 193 122 129 124 194 126	KWDTBL:	JMP	DELETE CONSTANTS AND OTHER PASRAMETERS AND STORAGE
021070 021074 021075 021076 021107 021100 021101 021102 021103 021104	900167 167276 126 103 122 120 124 104 126 116	KWDTBL:	JMP	DELETE CONSTANTS AND OTHER PASRAMETERS AND STORAGE
021070 021074 021075 021076 021107 021100 021101 021102 021103 021104 021105	900167 167276 126 103 122 120 124 104 126 116	KNDTBL:	JMP	DELETE CONSTANTS AND OTHER PASRAMETERS AND STORAGE
021070 021074 021075 021076 021107 021100 021101 021103 021104 021105 021106	900167 167276 126 103 122 120 124 104 126 126 123 123	KWDTBL:	JMP	DELETE CONSTANTS AND OTHER PASRAMETERS AND STORAGE
021070 021074 021075 021076 021100 021101 021102 021103 021104 021105 021106	900167 167276 126 103 122 120 124 104 126 126 123 123 115	KWDTBL:	JMP	DELETE CONSTANTS AND OTHER PASRAMETERS AND STORAGE
921979 921974 921975 921976 921199 921199 921193 921194 921195 921196 921197 921197	900167 167276 103 122 120 122 124 104 126 123 123 115	KWDTBL:	JMP	DELETE CONSTANTS AND OTHER PASRAMETERS AND STORAGE
021070 021074 021075 021076 021100 021101 021102 021103 021104 021105 021106	900167 167276 126 103 122 120 124 104 126 126 123 123 115	KWDTBL:	JMP	DELETE CONSTANTS AND OTHER PASRAMETERS AND STORAGE
921979 921974 921975 921976 921199 921199 921193 921194 921195 921196 921197 921197	900167 167276 103 122 120 122 124 104 126 123 123 115	KWDTBL:	JMP	DELETE CONSTANTS AND OTHER PASRAMETERS AND STORAGE
921979 921974 921975 921976 921199 921199 921193 921194 921195 921196 921197 921119	900167 167276 103 122 120 122 124 104 126 123 123 115 116	KWDTBL:	JMP	DELETE CONSTANTS AND OTHER PASRAMETERS AND STORAGE
021070 021074 021075 021076 021077 021100 021101 021103 021103 021105 021107 021110 021111	000167 167276 103 122 120 122 124 104 126 116 123 123 115 116	KWDTBL:	JMP	DELETE CONSTANTS AND OTHER PASRAMETERS AND STORAGE
021070 021074 021075 021076 021077 021100 021103 021103 021105 021106 021107 021110 021110 021111 021111	000167 167276 103 122 120 122 124 104 126 115 123 115 115 104		JMP	DELETE CONSTANTS AND OTHER PASRAMETERS AND STORAGE
021070 021074 021075 021076 021077 021100 021103 021103 021105 021107 021106 021110 021110 021111 021111 021111	000167 167276 103 122 120 122 124 104 126 115 123 115 115 115 124 115		JMP	CONSTANTS AND OTHER PASRAMETERS AND STORAGE /VCRPRTDYNSSMNMDMTMOMAT/ , KEYWORDS
021070 021074 021075 021076 021077 021100 021101 021103 021104 021105 021106 021110 021111 021111 021111 021111 021111	000167 167276 103 122 120 122 124 104 126 115 123 115 115 115 124 115		JMP	DELETE CONSTANTS AND OTHER PASRAMETERS AND STORAGE
021070 021074 021075 021076 021077 021100 021101 021103 021104 021105 021106 021110 021111 021111 021111 021111 021111 0211114 021115 021116	900167 167276 126 103 122 120 122 124 104 126 115 115 115 115 115 115 115 117		JMP	CONSTANTS AND OTHER PASRAMETERS AND STORAGE /VCRPRTDYNSSMNMDMTMOMAT/ , KEYWORDS
021070 021074 021075 021076 021077 021100 021101 021103 021104 021105 021106 021110 021111 021111 021111 021111 021111 021111 021111 021111 021111	900167 167276 126 103 122 120 122 124 104 126 123 123 115 115 115 115 115 115 115 115 115		JMP	CONSTANTS AND OTHER PASRAMETERS AND STORAGE /VCRPRTDYNSSMNMDMTMOMAT/ , KEYWORDS
021070 021074 021075 021076 021077 021100 021101 021103 021104 021105 021106 021110 021111 021111 021111 021111 021111 021111 021111 021111 021111 021111 021111 021112 021111 021111	900167 167276 126 103 122 120 122 124 104 126 123 123 115 115 115 115 115 115 117 115 124 115 117		JMP	CONSTANTS AND OTHER PASRAMETERS AND STORAGE /VCRPRTDYNSSMNMDMTMOMAT/ , KEYWORDS

921124 921126		•	. NORD _NORD	REPLACE REPTRN			
	917566		. NORD	D1SV0C			
021132			. WORD	NEWSPK			
	020262		. WORD	SENMOE			
	020326		. WORD	NUMMDE			
	020422		NORD	DISMDE			
	020366		. WORD	TRNMDE			
021144	020462	4	HORD	OPRMOE			
	020542		. WORD	ATNMDE			
		CRTCHR:		11, 12, 13, 14, 15, 1	5.74.70	75.	
	000011	GICTORIA.	HORD	11/12/13/14/10/1	w	, 2.0,	
	000012						
	000014						
	000015						
	000016						
	000031						
				•			
	000032						
	000035				-		
	<u>000000</u> 010046	7711.	64.0011	40 40			
		HY:	MOY	20, -(6)			
	010146		MOV	%1,-(6)			
021200	105767		TSTB	DISFG			
	170435						
			PAGE	073			
			FRUE	8(7			
	001421		BEQ	TTYØ			
021206	122767		CMPB	#16.SENFG2			•
	999916						
	170420						
	001415		BEQ	TTYO			
021216	116767		MOVB	CRTKB, CRTPB	PRINT	CHARAC	TER
	155260						
	155262						
021224	012700		MOV	#CRTCHR+20.,%0			
	021174						
021230	012701		MOY	#GRICHR, %1			
	021150						
021234	026721		CMP	CRTKB, (1)+			
	155242						
921249	001001		BNE	. +4			•
	000422		BR	. +38.			
021244	020001		CMP	29, 21			
	001372		BNE	10.			
	016700	TTY0:	MOY	1CNTR1, 20			
	002220						
021254	116760		MOYB	CRIKE, INPUTO(0)			
	155222						
	023424						
021262	005267	,	INC	ICNTR1			
	002206					** .	
921266	022767		CMP	#20. , 1CNTR1	; ICNTR1	. LT. 2	20
	000024						

				The state of the s
021274	002200	•	BPL	TTY1
asis18	005067		CLR	ICNTR1
	002172			marketingun demander inter enter ent
021302	012767	TTY1:	MOY	#7, COURFG ; WHEN SET , DATA FROM TTY READY
	000007			
	002524			
021310	912691		MOV	(6)+, %1 -
	012600		MOY	(6)+, %0
	005267		INC	CRTKS ENABLE TTY FOR ANOTHER CHARACTER
	155160			
021320			RTI.	
621322	012767		YOM	#YOCAB+1020,,YOCADD
	023366			
•	002152			
<u> </u>	<u> 912767</u>	· · · · · · · · · · · · · · · · · · ·	MOV	#HASH+204, HASHNG
* *	024024			
	002474			
921336	005067		CLR	COURFG
	002472			
	105767		TSTB	SENFG1
042544	170265			
004346	001002		DUE	. *
			BNE	+6
021350	994767		JSR	_7, CRLF
	166552			
021354	<u>005067</u>		CLR	CHRCNT
	002120	,		·
021360	004767		JSR	7, LDELAY
	166666			
			PAGE	074
			11104	,
024264	195967		CLRB	DISFG
051704			CLKB	Vibra .
 	170251		· · · · · · · · · · · · · · · · · · ·	
021370	000207		RTS	7
	104401		MUL	<u>=TRAP+1</u>
· .	104402		DIA -	=TRAP+2
<u> </u>	104404		50B	=TRAP+4
	104410		ASH	=TRAP+8.
٠.	104420	. *	ASHC	=TRAP+16
,	104440		XOR	=TRAP+32.
• •	104500		SXT _	=TRAP+64.
004330		HOCOD.		TIMIT TOT.
0213/2	999999	AnchR:	0	A AFA BUTTE
	923424		<u>= +1048</u>	8. ;1050. BYTES
023424		INPUTO:	_	
	923474	<u> </u>	=, +38,	; 40' BYTES
023474	000000	ICNTR1:	0	
		10NTR2:		
		CHRCNT:		
		YOCADD:		
	000000		0	
		TRNADD:	<u> </u>	
	000000			
647376			9	
	924932		. =: +208.	. 210. BYTES

024032 000000		·
824934 999999		
024036 000000	REPFLG: 0	
<u> </u>	NUMFLG: BYTE	<u> </u>
824941 999	SENFLG: . BYTE	
024042 000134	EIX: WORD	0134
024044 000140	DIGITS: . WORD	140, 142, 144, 146, 150, 152, 154, 156, 160, 162
<u> 824846 999142</u>		
024050 000144		,
024052 000146		
024054 000150		
024056_000152		
024060 000154		
<u>024060 000154</u>		
024064 000160		
924966 999162		124 420 400 400 400 400 420 420 420
024070 000134) 134, 132, 122, 120, 126, 110, 172, 136, 124, 170
<u> </u>		
024074 000122		
924076 999129		and the second of the second o
924100 999126		
<u> 924192 999119</u>		
024104 000172		·
924106 999136	`	
024110 000124		
924112 999179		
	SPCMRD: . NORE	10210, 21142, 1750
924116 921142		
024120 001750		,
	SPOSYM: . BYTE	E 50,40,10,10,51,40_
024123 040		
024124 010	A	
024125 010	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
024126 051		
024128 001	·	
•	PAGE	075
	<u> </u>	0/3
024127 040		•
024130 000000		0, SPCHFG, VOCAB, 30, LIMIT, 100000
024132 011612		A STORE OF A COURT DAY FIRST IN TRANSME
024134 021372		
	,	
024136 000030		<u> </u>
024140 015040		
924142 100000		
	DFLAG: . BYTE	
024146		
924146 999999		0.0
024150 000000		
	SSSSSS: . WORL	
	EEEEEE: . WORI	
824156 808088		BEGINNING OF TEMPLATE STORAGE
000001		
•	PAGE	976